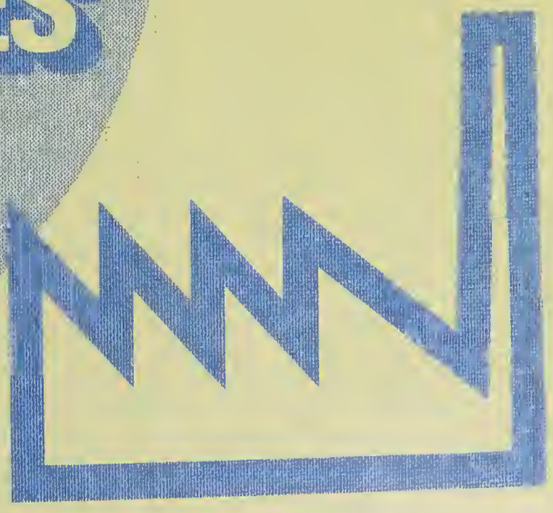
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Volume III

Geographic Area Statistics

Part 2. General Summary, Nebraska—Wyoming

1977 CENSUS OF MANUFACTURES

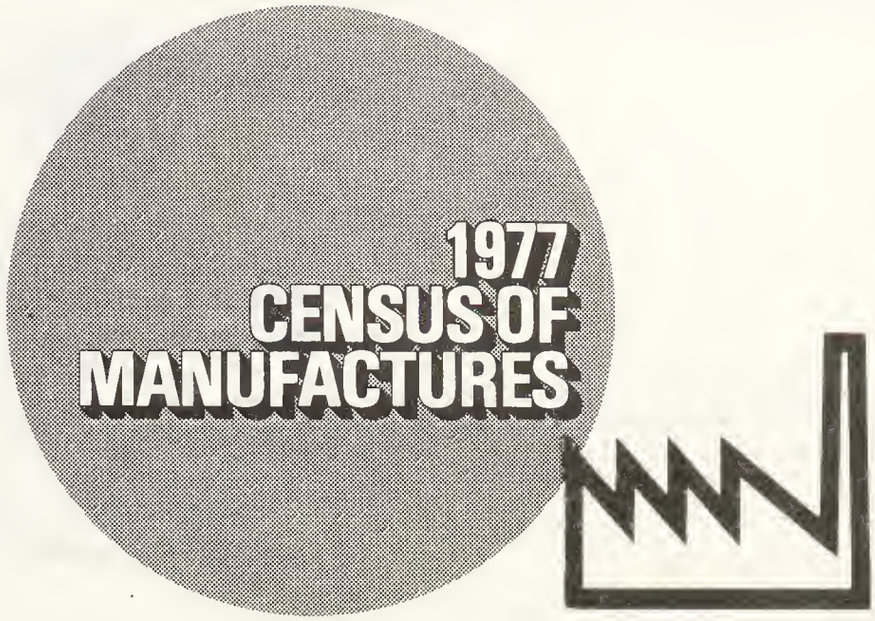


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Volume III

Geographic Area Statistics

Part 2. General Summary, Nebraska—Wyoming

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Geographic Area Statistics

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Data in this publication may differ slightly from the industry and area reports previously published. These differences are due to corrections which were made for minor errors identified after the industry and area reports were issued. This report reflects these corrections.

INTRODUCTION

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I. General Background

1. HISTORY OF THE ECONOMIC CENSUSES

General—The economic censuses provide a comprehensive statistical profile of a large segment of the national economy. This program includes censuses of manufactures, retail trade, wholesale trade, service industries, mineral industries, and construction industries. In 1977, these industries accounted for nearly 61 percent of the $1,894.5 billion of the gross domestic product and 70 percent of that originating in the private sector. The principal industry groups not covered were finance, insurance, and real estate; agriculture and forestry; communications; electric, gas, and sanitary services; and transportation. Limited information on transportation is collected, e.g., truck registration and distances travelled, and shipments of commodites by type of transport and distance shipped.

Uses and users of census data—The economic censuses are the primary source of facts about the structure and functioning of a major part of the economy. They are used extensively in compiling the benchmark measures of the national accounts. Census data also serve as weights or benchmarks for indexes of industrial production, productivity, and price; as well as many current surveys of industrial activity.

There is widespread use of the economic censuses, by the Government, in setting economic policy and monitoring economic programs. Manufacturers and distributors rely on census data to measure their potential geographic and industrial markets. The censuses provide the facts needed for economic forecasting; analysis of sales performance; the layout of sales territories; the allocation of advertising budgets; and the location of plants, warehouses, and stores. Trade and professional associations rely on census information to determine how their industries are changing; chambers of commerce and State and local governments depend on them to assess changes in the business structure in their areas. Business magazines and academic researchers rely on census facts as background for many of their articles.

Census reports are purchased by thousands of business and other users; census data are republished and widely circulated by trade associations, business journals, and the daily press; and census volumes are available in all the major public and college libraries.

History—The first economic type census covered the year 1809, when inquiries on manufacturing were included with the 1810 Census of Population. By modern standards, the results of this

pioneer effort would be considered unsatisfactory.[1] However, continued interest in the Nation's economic growth led to successive improvements in economic census-taking during the 19th century. By 1890, the statistical standards and procedures followed in censuses reached a full professional quality.

All of the decennial censuses from 1810 through 1940, with the exception of 1830, included questions on manufacturing. Inquiries on mining first appeared in 1840, and censuses of mineral industries were conducted decennially through 1940. Although some business-related data were collected in 1840, the first census of business was taken for the year 1929. This included retail trade, wholesale trade, and construction; beginning with 1933, selected service trades were covered. Dates of these and other economic censuses from 1809 are shown in table A.

Enterprise statistics—Through the history of the economic censuses. the unit of enumeration has been the establishment—i.e., a single physical location engaged in a specific line of business (for more discussion, see section 8). This unit is best suited for obtaining measures of direct output and input—labor, material, capital, etc. It is also best suited for providing refined industry and geographic tabulations. Statistics measuring overall income and balance sheet data are best collected at the company or enterprise level. In the early 19th century, these two business units were often identical. With the rise of large-scale operations, it became quite common for the large companies to operate separate manufacturing establishments in a number of diverse industries so that today the establishment and enterprise frequently are not the same. Enterprise measures and balance sheet data have typically been provided by the Internal Revenue Service (IRS) in its Statistics of Income and Federal Trade Commission (FTC) in its Quarterly Financial Report of Corporations.

The Bureau of the Census, as a result of the coordinated collection and tabulation of comparable data for several economic sectors in 1954, also developed an enterprise statistics

Table A. **Years Covered by U.S. Economic Censuses: 1809 to 1977**

Year covered	Manufactures	Mineral industries	Fisheries	Construction industries	Retail trade	Wholesale trade	Service industries[1]	Transportation[2]
1809	X	-	-	-	-	-	-	-
1819	X	-	-	-	-	-	-	-
1839	X	-	-	-	-	-	-	-
1840	-	X	-	-	-	-	-	-
1849	X	-	-	-	-	-	-	-
1850	-	X	-	-	-	-	-	-
1859	X	-	-	-	-	-	-	-
1860	-	X	-	-	-	-	-	-
1869	X	-	-	-	-	-	-	-
1870	-	X	-	-	-	-	-	-
1879	X	-	-	-	-	-	-	-
1880	-	X	X	-	-	-	-	-
1889	X	X	X	-	-	-	-	-
1899	X	-	-	-	-	-	-	-
1902	-	X	-	-	-	-	-	-
1904	X	-	-	-	-	-	-	-
1908	-	-	X	-	-	-	-	-
1909	X	X	-	-	-	-	-	-
1914	X	-	-	-	-	-	-	-
1919	X	X	-	-	-	-	-	-
1921	X	-	-	-	-	-	-	-
1923	X	-	-	-	-	-	-	-
1925	X	-	-	-	-	-	-	-
1927	X	-	-	-	-	-	-	-
1929	X	X	-	X	X	X	-	-
1931	X	-	-	-	-	-	-	-
1933	X	-	-	-	X	X	X	-
1935	X	X	-	X	X	X	X	-
1937	X	-	-	-	-	-	-	-
1939	X	X	-	X	X	X	X	-
1947	X	-	-	-	-	-	-	-
1848	-	-	-	-	X	X	X	-
1954	X	X	-	-	X	X	X	-
1958	X	X	-	-	X	X	X	-
1963	X	X	X	-	X	X	X	X
1967	X	X	X	X	X	X	X	X
1972	X	X	-	X	X	X	X	X
1977	X	X	-	X	X	X	X	X

- Not published. X Published.

[1]Actual coverage varied from census to census. [2]Limited information only.

[1] For an appraisal of early censuses of manufacturing, see Meyer H. Fishbein, The Censuses of Manufactures 1810-1890. National Archives Publication No. 63-22, June 1963, Government Printing Office.

program. This program relates census company-level data to data measuring the activities of individual operating units or establishments within the companies. Thus, a measurement of the integration and diversification of the American enterprise system became available. The enterprise statistics program also made it possible to link census establishment-based data on a modified basis to enterprise-based statistical systems such as the IRS's Statistics of Income for Corporations.

Legal provisions—The periodic economic censuses are required by law. Title 13 of the United States Code specifies the frequency of the censuses, the kinds of activities to be covered, the obligation to report, the penalties for failure to report, and the confidentiality of returns. It also authorizes the use of sampling techniques in conducting censuses. As amended in 1964, Title 13 requires the economic censuses to be taken at 5-year intervals, covering the years ending in "2" and "7." The next censuses will cover the year 1982 and will include the census of agriculture, which has been customarily conducted on a different time sequence from the other economic censuses. The pertinent portions of Title 13 are quoted in appendix E.

2. CHARACTERISTICS OF THE INDUSTRIAL SECTOR

General—Manufacturing is the largest sector of the economy. In 1977, manufacturing plants employed nearly 20 million persons, or 20 percent of the civilian labor force of 97.4 million. As shown in table B, gross domestic product (GDP) originating in manufacturing averages almost 24 percent of the total. Wholesale and retail trade combined was the next largest sector with 17 percent of the GDP.

Cyclical changes—The need for frequent and comprehensive statistics on manufacturing derives as much from its sensitivity to cyclical influences as from its relative size. Cyclical changes in income originating in manufacturing tend to be relatively larger than in the economy as a whole, as can be seen in the movement of national income originating in manufacturing from 1929 to 1933 to 1939 in table C.

Within manufacturing, durable goods industries accounted for about 60 percent of all manufactures during recent periods. This category tends to be more volatile than nondurable goods,

Table B. **Gross Domestic Product, by Industry, for Selected Years: 1947 to 1977**

Industry	1947	1954	1958	1963	1967	1972	1977
	Billions of dollars						
Gross national product[1]	233.1	366.8	449.7	596.7	799.6	1,185.9	1,918.0
Gross domestic product[1]	231.8	364.5	446.6	591.8	793.7	1,175.0	1,894.5
Manufacturing	66.2	106.4	123.8	167.4	222.3	292.5	462.4
Nondurable goods	32.7	45.6	54.1	69.8	88.7	119.3	185.3
Durable goods	33.5	60.8	69.7	97.6	133.6	173.2	276.6
Wholesale and retail trade	44.2	60.9	75.2	96.1	130.1	199.5	322.5
Government and government enterprises	19.3	36.9	47.1	65.9	96.3	155.4	237.2
Services	20.2	30.5	42.3	60.0	86.1	136.5	234.3
Finance, insurance, and real estate	23.2	46.5	62.4	85.3	114.2	169.8	274.0
Contract construction	9.1	17.2	21.0	27.4	37.5	59.4	86.7
Transportation	13.6	18.1	20.9	24.9	32.1	45.6	71.2
Agriculture, forestry, and fisheries	20.8	20.7	21.9	22.0	24.2	35.4	53.8
Electric, gas, and sanitary services	3.8	8.0	10.7	14.9	18.5	28.8	49.9
Communication	3.1	6.5	8.9	13.1	18.0	29.8	49.4
Mining	6.8	10.9	12.4	13.1	14.6	19.0	48.6
Rest of the world[1]	-	-	-	-	-	-	-
	Percent of gross domestic product						
Gross national product[1]	-	-	-	-	-	-	-
Gross domestic product[1]	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Manufacturing	28.7	29.2	27.7	28.3	28.0	25.0	24.4
Nondurable goods	14.2	12.5	12.1	11.8	11.2	10.2	9.8
Durable goods	14.5	16.7	15.6	16.5	16.8	14.8	14.6
Wholesale and retail trade	19.2	16.7	16.8	16.2	16.4	17.0	17.0
Government and government enterprises	8.4	10.1	10.5	11.1	12.1	13.3	12.5
Services	8.8	8.4	9.5	10.1	10.8	11.6	12.4
Finance, insurance, and real estate	10.1	12.8	14.0	14.4	14.4	14.5	14.6
Contract construction	4.0	4.7	4.7	4.6	4.7	5.1	4.6
Transportation	5.9	5.0	4.7	4.2	4.0	3.9	3.8
Agriculture, forestry, and fisheries	9.0	5.7	4.9	3.7	3.0	3.0	2.8
Electric, gas, and sanitary services	1.7	2.2	2.4	2.5	2.3	2.5	2.6
Communication	1.3	1.8	2.0	2.2	2.3	2.5	2.6
Mining	3.0	3.0	2.8	2.2	1.8	1.6	2.6
Rest of the world[1]	-	-	-	-	-	-	-

[1]Gross national product is the market value of goods and services produced by labor and property supplied by residents of the United States. Gross domestic product is the value of goods and services attributable to labor and property located within the United States. It equals GNP less the "Rest of the world" which is the net inflow of labor and property income from abroad.

generally accounting for a smaller percentage of all manufactures during periods of contraction and a larger percentage during periods of expansion. In the early thirties, for example, as shown in table C, durable goods manufacturing fell to only about one-third of the total.[2]

Geographic distribution—In the early and middle 19th century, manufacturing activity was concentrated in the Northeast. Over the past 130 years, as shown in table D, there has been a steady decline in the proportion accounted for by the Northeastern States. Industry expanded into the north central region in the

Table C. **Total National Income and Amounts Originating in Durable and Nondurable Manufactures for Selected Years: 1929 to 1977**

Year	Gross national product[1] (bil. dol.)	Gross domestic product[1] (bil. dol.)	National income without capital consumption adjustment[1] (bil. dol.)	National income originating in manufacturing			Manufacturing as a percent of national income (D÷C)	Durable goods industries as a percent of total manufacturing (F÷D)
				Total (bil. dol.)	Nondurable goods industries (bil. dol.)	Durable goods industries (bil. dol.)		
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1977	1,918.0	1,894.5	1,582.6	411.5	162.9	248.6	26	60
1976	1,718.0	1,697.5	1,413.0	366.6	149.9	216.7	26	59
1975	1,549.2	1,531.9	1,267.4	317.7	132.1	185.6	25	59
1974	1,434.2	1,414.4	1,176.8	301.4	120.6	180.8	26	60
1973	1,326.4	1,310.4	1,094.1	285.3	108.7	176.7	26	62
1972	1,185.9	1,175.0	969.9	252.3	98.3	154.0	26	61
1971	1,077.6	1,068.5	878.1	226.5	92.1	134.5	26	59
1970	992.7	985.4	814.8	215.1	87.7	127.4	26	59
1969	944.0	937.1	780.8	221.9	85.7	136.2	28	61
1968	873.4	866.7	722.7	212.7	81.6	129.4	31	59
1967	799.6	793.7	661.5	193.7	74.8	119.0	29	61
1966	756.0	750.3	627.0	189.7	72.2	117.5	30	62
1965	691.1	685.2	571.1	171.3	65.9	105.4	30	62
1964	637.7	632.3	524.2	154.2	61.3	93.2	29	60
1963	596.7	591.8	488.6	143.8	57.5	86.3	29	60
1962	565.0	560.5	463.4	136.1	55.1	81.0	29	60
1961	524.6	520.7	433.3	125.1	52.7	72.4	29	58
1960	506.5	502.9	420.8	125.1	51.9	73.2	30	59
1959	487.9	484.6	406.8	124.3	51.2	73.1	31	59
1958	449.7	446.6	373.4	107.9	45.8	62.1	29	58
1957	444.0	440.5	371.7	116.3	46.4	70.0	31	60
1956	421.7	418.5	355.7	113.2	46.3	66.9	32	59
1955	400.0	397.3	335.5	108.0	44.0	63.9	32	59
1954	366.8	364.5	307.2	94.7	39.7	55.0	31	58
1953	366.8	364.6	309.0	100.5	40.3	60.2	33	60
1952	348.0	345.7	295.5	92.6	38.3	54.3	31	59
1951	330.8	328.7	281.7	90.3	38.4	51.9	32	57
1950	286.5	284.8	244.0	76.3	33.4	42.9	31	56
1949	258.3	256.9	220.1	64.8	30.6	34.3	29	53
1948	259.5	257.9	226.7	68.8	32.9	35.9	30	52
1947	233.1	231.8	201.0	59.6	28.1	31.5	30	53
1943	192.1	191.6	171.5	58.3	19.6	38.6	34	66
1939	90.9	90.5	73.2	18.1	9.1	9.0	25	50
1935	72.5	72.1	57.6	13.4	7.3	6.1	23	46
1933	55.8	55.5	40.6	7.7	4.9	2.8	19	36
1932	58.3	57.9	43.1	7.3	5.2	2.1	17	29
1929	103.4	102.6	87.2	21.9	10.6	11.3	25	52

[1]Gross national product is the market value of goods and services produced by labor and property of residents of the United States. Gross domestic product is the value of goods and services produced within the United States. National income is gross national product less capital consumption allowances, indirect business taxes, and business transfers plus subsidies less surplus of government enterprises.

Source: Survey of Current Business.

[2]Based on national income rather than gross domestic product (GDP). Industry detail for GDP is available only from 1947; whereas, industry detail for national income is available from 1929 and encompasses the very depressed period of the 1930's.

Table D. **Employment in Manufacturing Establishments by Region: 1849 to 1977**

Year	United States	North-east	North Central	South	West
	Number of employees (thousands)				
1977	19,590	5,008	6,272	5,593	2,717
1972	19,029	5,306	6,135	5,221	2,367
1967	18,492	5,573	6,059	4,553	2,305
1963	16,235	5,190	5,239	3,780	2,025
1958	15,423	5,242	5,017	3,382	1,779
1947	14,294	5,429	5,109	2,710	1,054
1939	9,527	3,879	3,184	1,852	612
1929	10,198	4,246	3,516	1,758	675
1899	5,077	2,629	1,474	793	181
1849	957	696	110	146	4
	Percent of U.S. total				
1977	100	26	32	29	14
1972	100	28	32	27	13
1967	100	30	33	25	12
1963	100	32	32	23	13
1958	100	34	33	22	12
1947	100	38	36	19	7
1939	100	41	34	20	6
1929	100	42	35	17	7
1899	100	52	29	16	4
1849	100	73	12	15	-

Note: Detail may not add to totals because of independent rounding. 1849 data include hand and neighborhood industries, which were excluded from the censuses of manufactures beginning with 1899.

Source: Census of Manufactures.

latter part of the 19th century and, in more recent years, displayed a marked growth in the South and West.

Size distribution—Manufacturing activity tends to be characterized by relative large-scale operations. While there are many small manufacturing plants, they account for a relatively small part of the total output of goods. As shown in table E, over half of the plants covered in the 1977 Census of Manufactures were very small, employing less than 10 workers, but they accounted for less than 3 percent of total manufacturing activity as measured by value added by manufacture. (See appendix B for definition of value added).

Table E. **Number of Establishments and Value Added by Manufacture by Size of Establishment: 1977**

(Cumulative percentage)

Employment size class	Establishments	Value added by manufacture
All establishments	100.0	100.0
1 to 4 employees	40.1	1.0
1 to 9 employees	53.8	2.4
1 to 19 employees	67.6	5.2
1 to 49 employees	82.3	12.2
1 to 99 employees	89.9	20.5
1 to 249 employees	96.0	36.3
1 to 499 employees	98.3	51.0
1 to 999 employees	99.3	65.8
1 to 2,499 employees	99.8	80.1

3. CENSUS OF MANUFACTURES—BENCHMARK STATISTICS

In the farm-oriented economy of the early 19th century, the need for industrial statistics for setting government policy, except for tariffs and taxes, was slight. A few series on physical output of commodities originated either from private sources (flour, iron, steel, etc.) or as a byproduct of tax collection or other government functions (liquors, beer, tobacco products, etc.). The only sources of information on the growing manufacturing sector were the censuses of manufactures, then taken at 10-year intervals. Today, the need for industrial statistics has greatly increased so there is now a vast array of detailed information covering virtually every measurable aspect of industrial activity including employment; payrolls; hours worked; production; prices; inventories; orders; investment in structures, machinery, and equipment; and consumption of raw materials, fuels, and water. Many of these statistics are available at frequent intervals and very promptly after the close of the accounting period. Sophisticated indicators of economic change have also been developed, such as price and production indexes and the gross national product accounts that are published at monthly or quarterly intervals.

The census of manufactures, though conducted only at 5-year intervals, still plays an essential role since no other source measures the structure of the industrial sector in such a comprehensive and detailed way.

For every manufacturing plant with one employee or more, the census obtains data on its input of labor, materials, and capital; its output of products and services; its location; and the legal form of organization of the owning firm.[3]

A set of summary of general statistics are developed for each establishment (that is, total employment, payroll, number of production-worker hours and wages, cost of materials, value of shipments, inventories, capital expenditures, and value added by manufacture) and aggregated by industry, by area, by employment size of establishment, by degree of product specialization within plant, and by type of ownership. Reports are published on the detailed industrial characteristics of each State and large standard metropolitan statistical area (SMSA); and overall measures of manufacturing activity are shown at the county and individual city level provided the information can be published without compromising the confidentiality of individual company data. Since census legislation guarantees confidentiality to the firms that are required to report, it is frequently necessary to suppress some aggregates. Since a significant amount of industry detail cannot be published for the 3,140 counties and county equivalents in the United States, a special computer tape on Location of Manufacturing Plants was developed to provide a complete industry-county cross-section description of manufacturing. This tape includes the number of establishments in each of the 450 industries by county or county-equivalent area, by employment size. Comparison of this complete profile between censuses is used to study shifts in the geographic dispersion of industries and the industrial structure of local areas.

[3] Since 1967, some of this information for 120,000 small companies was not obtained directly but estimated from other government records. See the discussion of coverage of establishments in items 4 and 6.

The census of manufactures also facilitates the conduct of more frequent surveys on a sample basis. In fact, the present legislation specifying that censuses be conducted every 5 years authorizes an annual survey of manufactures (ASM) on a sample basis during the intervening years. The 5-year census provides the framework for selecting a new sample and the periodic universe levels to benchmark the sample estimates. The sample includes about one-fifth of all establishments. All large establishments are included in every sample; the smaller are selected proportionately to their size and are replaced at the end of each census. Thus, there is an annual updating of the census of manufactures in terms of broad measures of economic activity. The ASM contains the same basic measures of economic activity of the plant such as employment, payrolls, value of shipments, value added by manufacture, as does the census of manufactures, but obtains less detailed information on products, materials consumption, and equipment.[4]

The census of manufactures also is used to update other indicators of economic activity, especially the national income accounts. Census data on materials consumed and product output by industry are basic to the input-output matrix developed by the Bureau of Economic Analysis (BEA) for the manufacturing sector. The Federal Reserve Board's monthly Index of Industrial Production—a key indicator of current economic activity—relies on census industry and product data as benchmarks and weights to sum industries to higher levels of aggregation. The census and ASM also provide benchmarks for hundreds of monthly and quarterly surveys of commodity output conducted by the Bureau of the Census, other government agencies, and by manufacturers' associations.

4. INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Structure of the SIC System—The establishments in the census of manufactures are classified according to the SIC Manual. The SIC Manual covers the entire field of economic activities, subdivided as follows:

Industrial division	Title	Major groups
A	Agriculture, forestry, and fisheries	01-09
B	Mining	10-14
C	Contract construction	15-17
D	Manufacturing	20-39
E	Transportation, communication, electric, gas, and sanitary services	40-49
F	Wholesale and retail trade	50-59
G	Finance, insurance, and real estate	60-67
H	Services	70-89
I	Public administration	91-97
J	Nonclassifiable establishments	99

Below the major group level, the SIC provides for 3-digit groups and finally for 4-digit industries. To illustrate—

Division D—Manufacturing

Major Group. . . . . Food and kindred products
Industry group 202 . . . . . Dairy products
Industry 2023. . . . . Condensed and evaporated milk

The SIC system was developed to classify establishments as distinguished from similar systems used to classify companies or enterprises. An establishment is defined as a single physical location engaged in one of the industry categories of the SIC. (See pp. 1-9 for the application of this definition to collecting data in the economic censuses.)

This SIC system is the responsibility of an intragovernmental technical committee headed by the Office of Federal Statistical Policy and Standards, formerly part of the Office of Management and Budget, but transferred to the Department of Commerce in 1977. The system is used by all Federal Government agencies engaged in the classification of establishments. Many State and local governments and business concerns also organize their own records along SIC system lines in order to facilitate comparison with federal statistics.

The first SIC Manual was issued in 1939. For the manufacturing sector, the nucleus was the set of industry classifications developed over many years for use in the census of manufactures. A revised manual was issued for the manufacturing industries in 1945 and with minor modifications, used in the 1947 and the 1954 Censuses of Manufactures. In 1957, the SIC Manual was extensively revised for manufacturing industries and the historical comparability of some data was seriously affected. The introduction and appendixes to the 1958 census volumes discuss in detail this revision and its effects on census series. Only minor revisions of the SIC Manual were made between 1958 and 1967. The next extensive revision of the SIC Manual affecting the comparability of industry data was completed in 1972. These revisions and their impact on comparability appear in appendix C of the 1972 Census of Manufactures volumes.

Structure of the Manufacturing SIC System—For manufacturing, there are 20 2-digit SIC Major Groups (20 to 39) which are subdivided in 144 3-digit SIC Groups (201 to 399) and into 452 4-digit industries (2011 to 3999). The Bureau of the Census combined some small industries in order to publish data.

Most of the 452 manufacturing industries are defined in terms of specific groups of related products. Usually the products are made of similar materials and by similar processes and many are competitive but the SIC system does not necessarily bring together products which are close substitutes

[4] Since the ASM is based on a sample, the cross-classifications by industry and by area are fewer than in the census of manufactures. At the U.S. level, statistics are published in the annual survey for practically all of the 450 industries. However, at the SMSA level, statistics are published only for 3-digit and 2-digit industry groupings. At the county level, information is published for about 10 percent of the 3,140 counties and equivalent areas. These 300 odd counties are the larger ones in terms of manufacturing activity and account for about 80 percent of total manufacturing employment. Data for cities are shown for those cities having over 20,000 manufacturing employees.

in use and competitive in markets. In determining the boundaries of industries,[5] it is essential that each industry comprise a group of establishments that are highly specialized in making products that define the industry (primary products) and that a large proportion of all the products be made in establishments classified in the industry. While similarity of product is most frequently the determining factor in defining an industry, some industries are defined in terms of the processes or equipment used regardless of the final product of the establishment. (Example: Industry 3361, Aluminium Foundries (castings).) A small number of industries are basically defined by material used as well as final product of the plant. (Example: Industry 2521, Wood Office Furniture, and Industry 2522, Metal Office Furniture.)

There are wide differences among industries in their purity—i.e., the extent to which the establishments classified in the industry:

a. Account for the total production of commodities "primary" to the industry.
b. Produce products or services "belonging" to other industries (that is, secondary products).
c. Use similar materials or processes.

These variations are frequently construed to be shortcomings. However, these limitations in the classification structure arise from the inherent complexity of our economic system and from the variation in types of production that take place in individual establishments.

While the SIC system is the basis for aggregating census data, the data collected, in turn, provide the statistical basis for periodic critical evaluation of that classification system and its revision.[6]

No general-purpose system of industrial classification can satisfy all users of census data. Some business users are interested primarily in a narrow range of products which they and their competitors produce. Others are involved in a wide range of products that move through the same marketing channel. Others seek data relating to the consumers of one or more types of materials. Some are interested only in the data for highly specialized plants; others for plants producing a "full line" of products. Those studying productivity may require data for plants using the same techniques.

The large number of SIC industries provides the analyst with the "building blocks" for making useful approximations, even if specific data cannot be developed to resolve many of these problems. A single general-purpose system of classification can only partially satisfy these diverse needs; a point is soon reached at which the adaptation of a system to serve one use better will reduce its ability (sometimes disproportionately) to serve an alternative use.

Accordingly, users of data frequently reqroup detailed SIC industries differently from the 2- and 3-digit SIC categories. The Federal Reserve Board for many years has made combinations to stress such characteristics of products as durable, nondurable, consumer, producer, finished, intermediate goods, etc. Other public and private agencies also recombine the detailed classes. The 4-digit industries are more susceptible to allocation to such categories than the 2-digit SIC groups.

Subindustries—The Bureau of the Census frequently has further classified some of the basic 4-digit SIC industries into "subindustries." Subindustries are employed where there are wide disparities in the input-output relationships (or operating ratios) of the plants in the industry because of differences in the degree of vertical integration, technology, methods of distribution, geographic location, types of materials used, etc. In about 61 manufacturing industries, subindustries were established for editing purposes and many were regarded as significant enough to be used for publication. For example, the bakery industry (SIC 2051) is subdivided into wholesale bakeries, chain-store bakeries, home-service bakeries, and retail multioutlet bakeries; and many apparel industries (major group 23) are subclassified into manufacturers, contractors, and jobbers.

To provide a further measurement of variations with 4-digit industries, the Bureau of the Census also subclassified establishments by the degree to which they produce the primary products or specific classes of primary products of the 4-digit industry into which they are classified. This is, in effect, a subindustry classification based on the degree of product specialization which is published in table 5a of Volume II, Industry Statistics.

Definition of manufacturing—Manufacturing includes a wide range of activities as defined in the SIC Manual. Manufacturing is the mechanical or chemical transformation of inorganic or organic substances into new products. The assembly of component parts of products is also considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills, which characteristically use power-driven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfer to other plants of the same company, or to the order of industrial users. Typically, manufacturers do not sell directly to the household consumer, although some (for example, baking, milk bottling, etc.) sell, chiefly at retail, to household consumers through the mail, through house-to-house routes, or through salesmen. Some service-type activities (enameling, binding, platemaking, etc.) are included in manufacturing if they are performed primarily for trade; but are considered nonmanufacturing if they are performed primarily to the order of the household consumer. On the other hand, some manufacturing industries include business firms which perform only the entrepreneurial functions

[5] Frequently, business analysts and other data users look at a group of products from more than one point of view. For example, modern high-speed computers are classified as office machines. This describes the purpose of the product. In a physical sense, however, such computers would be described as electronic devices. Similarly, paper bags, wooden boxes, glass bottles, tin cans, and steel barrels may all be classified as containers, or they may be individually grouped with other products of similar materials, such as converted paper products, wood products, glass products, etc.

[6] See Industry Classification and Sector Measures of Industrial Production by James W. McKie, Bureau of the Census Working Paper No. 20, 1965, and Historical Comparability of Census of Manufactures Industries, 1929-1958 by Harold T. Goldstein, Bureau of the Census Working Paper No. 9, 1959.

of buying the materials and designing and marketing the product, but have the actual production done on contract (for example, apparel jobbers).

SIC classifies establishments—The SIC system is an establishment classification system, and the census of manufactures is conducted on an establishment basis. That is, a company with operations at more than one location is required to submit a report for each location. On the other hand, a company engaged in distinctly different lines of activity at one location is required to submit a separate report for each activity if the plant records permit such a separation and if the activities are substantial in size.

The requirement that distinct lines of activity at the same location be separately reported was applied only where the establishment produced and shipped significant amounts of products classified in different SIC industries. In widely varying degrees, many manufacturing establishments make products that fall into different SIC industries. Generally, the amounts involved are not significant enough to warrant the filing of separate reports, even if feasible. However, there are a number of locations at which large numbers of employees are engaged in activities defined in different industries of the SIC system. Frequently, companies organize their operations and their records separately for the diverse activities and report them as separate plants. When they do not do so on their own initiative, the Bureau of the Census requests separate reports if it appears that 100 or more employees are involved in each activity. For the most part, companies have cooperated and "split out" the different activities which would otherwise significantly distort the relationship of the industry and product statistics. Not infrequently, however, the two groups of products are made on the same production lines by many of the same employees and cannot be distinguished sufficiently in company records to provide establishment-type reporting.

The SIC system also recognizes special situations where otherwise separately classifiable activities frequently occur at one location. For example, the definition of Industry 2421, Sawmills and Planing Mills, recognizes that sawmills may include logging operations. Similarly, pulpmills operated in combination with papermills are included in one report.

Establishments included in census of manufactures—For the 1947 Census of Manufactures, the censuses have included only establishments with one employee or more. Prior to 1947, different criteria were used to determine if an establishment had to report in the census. In the censuses of 1921 through 1939, establishments with less than $5,000 value of products were excluded. For 1899 to 1919, the limit was $500. The change in the minimum-size criterion to an employment basis in 1947 did not appreciably affect the overall comparability of earlier census figures, except for the number of establishments.[7]

A sample survey of manufacturing plants with no paid employees was conducted in conjunction with the 1958 census. While there were nearly 52,000 establishments in this category in that year, they accounted for only about one-quarter of 1 percent of the total value of shipments of all manufacturing industries. The proportion was higher for certain industry groups such as lumber and wood products, and printing and publishing. Tabulation of IRS data for 1977 indicates that manufacturers with no paid employees continue to be of very minor importance. They contribute less than one half of 1 percent of the total value of shipments of all manufacturing industries.

Special treatment of very small establishments—Beginning with the 1967 census, an effort was made to relieve the very small establishments from the necessity of filing a census report. Approximately 120,000 small single-unit manufacturing firms identified as having less than 10 employees benefited from this procedure. Limited data on payrolls, sales, and industry classification from the administrative records of the Social Security Administration (SSA) and the IRS were made available to the Bureau of the Census for use in the 1967, 1972, and 1977 economic censuses. (These special arrangements safeguarded the confidentiality of both tax and census records.) Data other than payrolls and sales for these small establishments were estimated from historical industry ratios. The effect on industry aggregates is slight in most industries; for manufacturing as a whole, these small "administrative records" account for only 1.2 percent of the value added. Detailed product and materials data for these small establishments were not estimated; the entire value of product shipments and cost of materials was imputed to a "not specified by kind" (n.s.k.) category. If these establishments had been included in the 1972 Census of Manufactures, they were assigned the industry classifications to which they had been coded. If they had started business later, they were coded on the basis of brief descriptions of the general activity of the establishment as reported to the SSA. Where the description is incomplete or there are relatively fine lines of demarcation between industries or between manufacturing and nonmanufacturing activity, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product information. Therefore, the Bureau of the Census conducted a special classification survey in order to clarify the industry codes of some of the establishments in the adminstrative record file. All establishments without specific 4-digit codes and those where there could be significant misclassification between manufacturing and other sectors were sent such a questionnaire. Nevertheless, the total establishment counts in most industries should be viewed as approximations rather than precise measurements. The counts for establishments with 20 employees or more are far more reliable than the total number of establishments.

Auxiliary units—Manufacturing requires a wide range of diverse support activities. These activities include movement to the manufacturing plant, storage, the operation and maintenance of plant and equipment, the design of flow of work through the production process, and necessary arrangements for shipment of output to customers. Also included are a host of subsidiary activities associated with the operation of an establishment (for example, management and policy formation, product and market orientation, engineering and quality control,

[7] This point is discussed at greater length in the Introduction to the 1947 volumes.

recordkeeping and accounting, physical security of plant and equipment, and the like).

Support and subsidiary activities may be performed by personnel located at the manufacturing establishments or at a separate location serving one or more manufacturing locations of the same company. These separate locations are referred to as administrative offices and auxiliaries, where these activities are carried on at a different physical location or are performed for more than one plant, they are excluded from the figures for operating manufacturing establishments and are included in the data shown for administrative offices and auxiliaries. (See the description of the questionnaire used for these establishments, form NC-X6, in item 7.)

Border-line activities—The following types of activities, while having some of the characteristics usually found in manufacturing, are considered as nonmanufacturing and, therefore, are excluded from the census:

a. Processing on farms when the raw materials are grown on the farm and the manufacturing activities (poultry dressing, milk and butter production, logging, etc.) are on a small scale without extensive use of paid labor. Also custom milling, egg hatching, cotton ginning, and similar activities closely associated with agriculture are excluded.
b. Mineral preparation such as the crushing, screening, and concentrating of ores. However, mining performed as a secondary activity in conjunction with manufacturing is included in the census unless a separate report for the mining activity was filed; for example, stone and clay mining at cement, lime, and clay products plants.
c. Custom work to the individual order of household consumers. Examples are custom tailoring, woodworking, lettering on monuments, setting of diamonds, and the making of orthopedic appliances.
d. Repair and other service activities, except specified services performed "for the trade." Repair shops of railroads are also excluded.
e. Production of coke "for own use" by establishments owned by public utility companies.

Census establishment-based data measures manufacturing as primary activity. In the census of manufactures, no attempt is made to measure the extent of manufacturing at locations which are not primarily manufacturing plants, such as retail establishments which sell most of their products on the premises directly to household consumers (retail bakeries,[8] ice cream stores, etc.), or manufacturing by construction contractors at the site (for example, production of paving mixtures).

Conversely, it is not unusual for manufacturing establishments to engage also in some nonmanufacturing activities such as repair work, merchandising of products without further processing, and installation work. Ordinarily, these nonmanufacturing receipts are small in relation to the manufacturing activities and, therefore, it is not difficult to determine that the establishments should be included in the manufactures area. However, if the nonmanufacturing activities account for a significant proportion of total receipts of an establishment, the classification of that establishment into the appropriate major economic sector is more difficult.

In the economic censuses, an establishment engaged in a combination of manufacturing and merchandising is assigned either to the manufacturing or the trade industries depending on which of these activities was estimated to account for the larger share of its "value added" or "income produced." This criterion, even though based on approximation, was considered preferable to treating each dollar of receipts from each type of activity equally in determing the primary industry, since manufacturing requires considerably more worker-hours, salaries and wages, and capital inputs per dollar of receipts than either wholesaling or retailing. However, in classifying establishments engaged in manufacturing and also in mining, repair work, installation, construction, or other nonmanufacturing services, dollar receipts were used as the basis of classification because these activities require substantially comparable input per dollar of receipts.

Product codes—The SIC coding system is designed to describe industries and operates in such a way that the definitions become progressively narrower with successive additions of numerical digits. There are 20 very broad 2-digit groups, 144 3-digit groups, and 452 4-digit industries. Based on the SIC Manual, the Bureau of the Census has developed a product coding system along similar lines which contains about 1,500 5-digit product classes and approximately 13,000 individual 7-digit products. (See "the classification of products and materials" below.) The 7-digit products and 5-digit product classes are considered the primary products of the industry with the same first four digits as the product code. For example, the 7-digit product code number 2023212 refers to canned evaporated milk. The first five digits of this code number, 20232, refer to the "product class" canned milk, and the first four digits, 2023, refer to the industry in which these products are made (the condensed and evaporated milk industry). The same system is applied to the coding of materials. The first four digits of a material code (for example, the code number 024111, whole milk used as a material) describe the industry that produces it; e.g., 0241, agricultural industry, dairy farms.[9]

This SIC-based system is simpler than other systems for the coding of industrial products and materials used, since there is a direct numerical relationship between commodities and industries. Complications occur in the few SIC industries defined in terms of processes or equipment used as well as products made. As an example, women's sweaters are produced in knitting mills (industry 2253) and also in cut-and-sew shops (industry 2339). To retain the industry-of-origin concept, therefore, it is necessary to assign different product code numbers to women's sweaters, depending on where they are made.

The SIC-based commodity classification is used in the Bureau of the Census' entire industrial statistics program, including

[8] Separate data for retail bakeries with baking on the premises were included in the retail census publications.

[9] See tables 6a and 7 in volume II.

monthly, quarterly, and annual surveys, and also in the census of wholesale trade. The Bureau of the Census also publishes data on imports and exports in terms of SIC-based categories as well as the traditional Schedule B and TSUSA systems.[10]

Primary and secondary products of establishments—An establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value its production of products of any other single industry. The industry code assigned to the establishment is derived from a summation of values for 7-digit product codes to their 4-digit industry and the selection of the largest 4-digit value as the establishment's industry classification. However, as mentioned earlier, the industry classification of an establishment may be determined not only by the products it makes but also by the processes employed or materials used in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to this extent. Therefore, the general statistics (employment, payrolls, inventories, value added by manufacture, total value of shipments, capital expenditures, etc.) shown for an industry (tables 1 to 4, Volume II, Industry Statistics) encompass not only the primary activities of the establishments in that industry but also their secondary activities. On the other hand, the product statistics in tables 5a and 6a of the industry chapters measure the total output of specific products whether they are produced by establishments classified in the same industry as the product or not. For this reason, in relating the general statistics of an industry, especially the industry total value of shipments (tables 1 to 4 in Volume II, Industry Statistics), to the product statistics (table 6), the composition of the industry's output as shown in tables 5b and 5c should be considered. Table 5c is a matrix table in which the columns break down industry shipments into primary and secondary products and "miscellaneous receipts." The rows of the table show the amount that each industry produced of a given product class.

The extent to which industry and product statistics may be matched with each other is measured by the two ratios shown in table 5b which are computed from table 5c. The first of the ratios, called the primary product specialization ratio, is the proportion of product shipments (both primary and secondary) of the industry made up of primary products. The second, defined as the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

Degrees of integration—In many industries, establishments use a wide variety of processes and materials to make the products of the industry. An industry classification based on end products may include establishments which are vertically integrated and those which put only the finishing touches on an already highly-fabricated purchased item. For example, in the refrigeration industry, there are some establishments that are almost completely integrated, producing the compressor and condensing unit, electric motor, and even the castings for those intermediate products, as well as the stamping of the case and the final assembly. In other plants, the condensing unit, the motor, and the case may be purchased and merely assembled into the finished product.

In some instances, nonintegrated plants have been placed in separate industry categories from the integrated plants. In many industries, the census provides separate statistics on departmental operations or on the production of intermediate commodities made and used in the producing plant. When an industry includes plants which ship a significant proportion of their output to other plants of the same company, separate figures are usually shown on the interplant transfers.

These differences in the integration of production processes, types of operations, and types of materials used, should be taken into account when relating the general items (employment, payrolls, value added, etc.) to the product and materials data. Where integrated operations are of consequence in an industry, that fact is pointed out in the explanatory text.

Industry code resistance—The production of many establishments is so evenly divided among two or more industry-determining product groups that the industry codes could change from year to year (industry codes can be based on less than half of the total value if there are three or more groups). In the ASM, plants had always been prevented from shifting back and forth among industries due to minor shifts in product mix in the years between censuses by the application of a "resistance formula" in assigning industry classifications. In census years, such resistence was not applied.

A resistance formula of the ASM type was first used in the 1963 Census of Manufactures. In the 1977 census, the formula was applied only to establishments included in the 1976 ASM sample panel with certainty (that is, included with a probability of "1"). In general, these certainty cases were establishments of companies with at least one manufacturing plant with 250 employees or more.

The formula recognizes the conflicting need to maintain continuity in the establishment composition of an industry to measure change and the need to allow establishments to be reclassified to measure the current composition of the industry.

In the 1977 census, the industry classification of a certainty establishment was allowed to change from that assigned in 1976 under one of the following conditions:

a. The value of the 1977 primary products constituted 60 percent or more of its total value of product shipments.

b. The value of the 1977 primary products, while less than 60 percent of the total, was at least twice the value of products which had determined the 1976 industry code.

c. The value of the 1977 primary products, while not meeting either of the two above conditions, had been the largest group of products for at least two years, i.e., exceeded the value of the 1975 primary industry's products in both 1977 and 1976 by at least 20 percent.

[10] Schedule B is the U.S. export classification while TSUSA is applied to imports.

Table F. **Value Added by Manufacture for Regions, Divisions, and States: 1977**

Region, division, and State	Value added by manufacture (million dollars)	United States, total (percent)
United States[1]	585,165.6	100.0
Northeast Region	138,746.4	23.7
New England Division	35,586.9	6.1
Maine	2,343.0	.4
New Hampshire	2,174.7	.4
Vermont	1,050.1	.2
Massachusetts	16,348.6	2.8
Rhode Island	2,736.6	.5
Connecticut	10,933.9	1.9
Middle Atlantic Division	103,159.5	17.6
New York	44,289.8	7.6
New Jersey	22,852.8	3.9
Pennsylvania	36,016.9	6.2
North Central Region	200,889.8	34.3
East North Central Division	160,223.4	27.4
Ohio	43,054.7	7.4
Indiana	22,717.6	3.9
Illinois	40,279.1	6.9
Michigan	37,566.0	6.4
Wisconsin	16,606.0	2.9
West North Central Division	40,621.3	6.9
Minnesota	9,605.2	1.6
Iowa	8,684.4	1.5
Missouri	13,041.9	2.2
North Dakota	473.3	.1
South Dakota	611.6	.1
Nebraska	2,867.1	.5
Kansas	5,337.8	.9
South Region	160,581.7	27.4
South Atlantic Division	72,304.3	12.4
Delaware	1,595.7	.3
Maryland	7,115.6	1.2
District of Columbia	610.2	.1
Virginia	10,882.0	1.9
South Region--Con.		
South Atlantic Division--Con.		
West Virginia	3,880.2	.7
North Carolina	18,230.6	3.1
South Carolina	8,186.1	1.4
Georgia	12,548.8	2.1
Florida	9,255.1	1.6
East South Central Division	36,234.3	6.1
Kentucky	9,545.7	1.6
Tennessee	12,663.4	2.2
Alabama	8,405.9	1.4
Mississippi	5,619.3	1.0
West South Central Division	52,112.5	8.9
Arkansas	4,881.6	.8
Louisiana	9,418.3	1.6
Oklahoma	4,662.3	.8
Texas	33,150.3	5.7
West Region	84,910.6	14.5
Mountain Division	13,620.4	2.3
Montana	847.3	.1
Idaho	1,430.0	.2
Wyoming	380.8	.1
Colorado	4,471.8	.8
New Mexico	733.5	.1
Arizona	3,332.9	.6
Utah	1,974.0	.3
Nevada	495.2	.1
Pacific Division	71,245.1	12.2
Washington	8,955.0	1.5
Oregon	6,138.0	1.0
California	54,862.4	9.4
Alaska	504.2	.1
Hawaii	785.5	.1

[1]Total value added differs slightly from summation of the individual States since a few establishments that could not be accurately coded to a State are included in the United States total.

5. GEOGRAPHIC CLASSIFICATION

Census divisions and regions—The 1977 Census of Manufactures measures industrial activity at the State, county, city, and standard metropolitan statistical area levels. In prior censuses, similar information was also provided for the traditional nine geographic divisions (e.g., New England, Middle Atlantic, etc.) and the four geographic regions (northeast, south, north central, and west).

The presentation of data for individual industries and industry groups at all these geographic levels has always created serious problems in protecting the confidentiality of individual company data. Consequently, it has frequently been necessary to set priorities as to what will be published (see item 21). In the past, the preference was given to publishing data for the broad geographic regions over States leading to greater suppression of industry detail at the State level. In recent years, there has been increasing interest in State information in preference to the broader regions. As a result, the 1977 Census of Manufactures gave first precedence to publishing State figures. A decision was also made to forego publication of any divisional and regional totals. This was desirable to avoid suppressing industry detail in one State that could have been published, in order to protect data for another State in the same division, that had to be suppressed to preserve the confidentiality of a respondent's figures.

Thus, some summary tables for the nine geographic divisions and four regions that were published in prior censuses do not appear in this volume, of the 1977 census of Manufactures. (See table F for 1977 value added data for regions, divisions, and States.)

Standard metropolitan statistical areas—In addition to the data for the legally constituted geographic units (States, counties, and cities), all manufacturing totals are shown for approximately 280 SMSA's.[11] In the 1977 tables, detail for 2-, 3-, and 4-digit industries is shown for an SMSA if data for individual companies would not be disclosed, and the industry had at least 250 manufacturing employees. These are the same criteria as those used in the 1972 census. In censuses prior to 1967, detail had not been shown for SMSA's with under 40,000 total manufacturing employment, and only industry group figures were shown for SMSA's with 40,000 to 190,000 employees.

SMSA's are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of

[11] See appendix A for a description of each SMSA.

Table G. **The 50 Largest SMSA's Ranked by Value Added by Manufacture: 1977 and 1972**

Standard metropolitan statistical area	Number of employees (thousands)	Value added by manufacture (mil. dol.)	1977 rank	1972 rank
Chicago, Ill.	884.3	27,542.1	1	1
Los Angeles-Long Beach, Calif.	825.5	24,701.8	2	2
New York, N.Y.-N.J.	796.6	19,878.3	3	3
Detroit, Mich.	564.6	18,149.9	4	4
Philadelphia, Pa.-N.J.	451.8	13,429.6	5	5
Houston, Tex.	210.1	9,844.4	6	11
St. Louis, Mo-Ill.	248.7	8,342.0	7	8
Cleveland, Ohio	265.4	8,105.9	8	7
Newark, N.J.	255.5	7,870.8	9	6
Dallas-Fort Worth, Tex.	269.9	7,869.1	10	13
Boston, Mass.	267.7	7,469.1	11	9
San Francisco-Oakland, Calif.	193.3	6,817.2	12	14
Rochester, N.Y.	144.4	6,732.4	13	10
Pittsburgh, Pa.	239.7	6,478.4	14	12
Milwaukee, Wis.	204.1	6,408.8	15	16
Minneapolis-St. Paul Minn.-Wis.	216.9	6,408.0	16	15
San Jose, Calif.	181.4	6,205.7	17	22
Cincinnati, Ohio-Ky.-Ind.	160.2	5,645.9	18	17
Anaheim-Santa Ana-Garden Grove, Calif.	177.5	5,280.9	19	23
Baltimore, Md.	165.9	5,169.5	20	18
Buffalo, N.Y.	140.3	4,735.5	21	19
Louisville Ky.-Ind.	106.9	4,440.7	22	20
Nassau-Suffolk, N.Y.	155.9	4,370.3	23	25
Atlanta, Ga.	128.7	4,222.8	24	27
Seattle-Everett, Wash.	131.9	4,161.0	25	28
Kansas City, Mo.-Kans.	117.8	4,119.9	26	21
Indianapolis, Ind.	124.0	3,922.2	27	26
Gary-Hammond-East Chicago, Ind.	98.2	3,517.6	28	30
Dayton, Ohio	106.5	3,261.0	29	29
Toledo, Ohio-Mich.	92.7	3,203.0	30	35
Denver-Boulder, Colo.	106.4	3,068.5	31	36
Providence-Warwick-Pawtucket, R.I.-Mass.	140.0	3,040.4	32	33
Portland, Ore.-Wash.	99.4	2,951.6	33	40
Columbus, Ohio	96.2	2,969.4	34	32
New Brunswick-Perth Amboy-Sayreville, N.J.	80.5	2,945.2	35	31
Allentown-Bethlehem-Easton, Pa.-N.J.	106.8	2,731.8	36	37
Beaumont-Port Arthur-Orange, Tex.	38.3	2,626.3	37	(1)
Youngstown-Warren, Ohio	79.5	2,620.2	38	38
Grand Rapids, Mich.	82.6	2,582.2	39	41
Phoenix, Ariz.	84.6	2,558.6	40	44
Hartford, Conn.	87.0	2,317.0	41	43
San Diego, Calif.	79.1	2,173.9	42	49
Memphis, Tenn.-Ark.-Miss.	64.1	2,159.7	43	45
Greenville-Spartanburg, S.C.	104.8	2,129.7	44	42
Baton Rouge, La.	24.1	2,075.5	45	(1)
Syracuse, N.Y.	57.8	2,017.7	46	48
Akron, Ohio	83.5	2,014.2	47	39
Richmond, Va.[2]	53.4	1,992.6	48	(1)
Jersey City, N.J.	72.2	1,983.4	49	34
Nashville-Davidson, Tenn.	80.5	1,935.3	50	(1)

Note: The Flint, Mich., SMSA, falls within the top 50 SMSA's but is excluded from this table to avoid disclosing figures for individual companies.

[1]Not in the top 50 SMSA's. [2]New Kent County added in 1977.

the area.[1 2] Each area (except in New England) consists of one whole county or more. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas for general-purpose use in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's, but on a city and town basis, because towns are regarded as the significant unit in this region of the country.

The requirement that each SMSA consist of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis. Periodically, the SMSA's are redefined. While some changes can be made at any time, if there are serious reasons, the major restructuring of SMSA's occur after each census of population is completed. Appendix F describes the current SMSA's and the changes since 1972.

Each SMSA is designated by the name of the principal city of the area. In addition to the name of the principal city, the areas title may include one or two additional city names.

Value added by manufacture in all SMSA's accounted for 79 percent of the U.S. total in 1977. The relative importance of the 50 largest SMSA's in 1977 and their rankings in the 1972 and 1967 censuses are shown in table G.

[1 2] Each SMSA must include either (1) a city with 50,000 or more inhabitants, or (2) a city having a population of at least 25,000 which (a) with the addition of the population of contiguous places has a population density of at least 1,000 persons per square mile; (b) constitutes, for general economic and social purposes, a single community with a combined population of at least 50,000; and (c) includes a total population of at least 75,000 in the county or counties in which the city and contiguous places are located.

Standard consolidated statistical areas (SCSA's)—In many highly urbanized areas of the country, SMSA's tend to border on one another. For some purpose, it was desirable to treat them as one geographic area and the SCSA's were developed. Each SCSA includes two or more contiguous SMSA's which meet specific criteria of size, urban character, integration, and contiguity of

urbanized areas. As with the SMSA's, the SCSA's are defined by the Federal Committee on SMSA's of the Office of Management and Budget. Their number has increased from two in the 1972 census to 13 for 1977. All manufacturing totals appear in table 4 of each State chapter. Data for 2-, 3-, and 4-digit industries with 250 manufacturing employees or more are published in table 6.

Industrial counties—In addition to industry statistics for SMSA's, table 7 of each State report presents data by county for each industry group (2- and 3-digit) and industry (4-digit) that had at least 450 manufacturing employees if it would not disclose figures reported by individual companies.

Cities with 450 manufacturing employees or more—Summary totals and industry detail at the 2-, 3-, and 4-digit levels are shown for individual cities with 450 manufacturing employees or more, provided the data do not disclose information for individual companies.

II. Methods

6. PLANNING AND PREPARATION

General—The Bureau of the Census has an obligation to meet public needs for timely and reliable information while holding costs and the burden on respondents to a minimum. During the planning stages of each economic census, the advice of trade and professional associations, Federal and State government agencies, individual companies, labor unions, and research and educational organizations is sought in an effort to reach both the users of data and the respondents who supply the basic figures. Simultaneously, the problems encountered in the previous censuses are studied, and improved methods of collection, processing, and tabulation are explored.

Mailing lists—Beginning with the 1954 economic censuses, the basic mailing lists have been obtained from IRS and SSA records. These records were also sampled to develop statistics for retail and service establishments with no employees. After the 1963 censuses, feasibility studies indicated that greater use could be made of the data in the IRS-SSA records. In the 1967 censuses, over 2,000,000 firms were exempted from the filing requirement, including 120,000 small manufacturers. Instead, census-type statistics for this group were developed from IRS-SSA records. In close cooperation with IRS and SSA, specific procedures for the use of individual tax returns that assured confidential treatment of them were developed and set forth in Executive Order No. 10911, dated January 17, 1961, and Treasury Decision No. 6547 of the same date. The records used were business income tax returns (IRS forms 1040C, 1065, 1120, and 1120S) and payroll tax returns (IRS form 941). The name and address, payrolls, and gross business receipts were obtained from these reports, in addition to the SIC industrial activity code assigned by SSA. Other census statistics for these small firms were imputed using industry average ratios of the data item to payrolls and sales.[13]

This procedure was repeated in the 1972 and 1977 economic censuses. In 1972, there was a concerted effort by the Bureau of the Census to improve the industry coding of the administrative record by mailing a nature-of-business inquiry to establishments whose industry codes could have been affected by the 1972 revision to the SIC Manual. A similar effort was made in 1977 to clarify the classification of firms which SSA had not been able to code precisely.

Content of questionnaires—As in previous censuses, the content of the 1977 questionnaires was developed in consultation with a large number of organizations and individuals, representing both the manufacturers who supply the data and those who use the statistics. Those consulted included Government agencies, individual firms, labor unions, the American Statistical Association, the American Economic Association, the American Marketing Association, the National Association of Manufacturers, and all National Manufacturers' Associations covering specific industries.

Many individual manufacturers and their trade associations were consulted about the content of the sections of the report forms dealing with the output of specific products. Drafts of the proposed 1977 product sections were circulated among 800 trade associations and about 4,000 manufacturing companies, both large and small. These draft report forms included new product detail reflecting suggestions received by the Bureau of the Census after the 1972 canvass. Small items (those valued at $7.5 million or less) were not retained in the list unless they were needed to assure correct classification of other products or were of strategic importance. A restriction was placed on proposals for additional detail; it was stipulated that the 1977 value of any new product category should exceed $20 million. The manufacturers were requested to comment specifically on the availability of the data requested in their ordinary records, and the appropriateness of the product descriptions and units of measure.

The thousands of comments and suggestions received in this clearance procedure and the decisions reached were forwarded to the Office of Federal Statistical Policy and Standards, along with the product sections developed by the Bureau of the Census as a result.

A final review was made by the Office of Federal Statistical Policy and Standards with the assistance of the Advisory Council on Federal Reports. The latter organization is a group of business executives such as controllers, economists, and market research directors, representing a cross section of all industries.

[13] As discussed elsewhere in this introduction, the amount of imputation introduced by this procedure was only about 1 percent of the overall totals.

7. REPORTING FORMS

A representative selection of the reporting forms used in the census is reproduced in appendix D. The users of each of them are discussed below.

General forms—These forms were used in the economic censuses, generally, either as companywide reports or as reports for establishments whose classification was not known precisely in advance of mailing.

NC-X1, Report of Company Organization—This companywide report was used prior to mailing the 1977 census questionnaires to develop the directory of establishments operated by multiunit companies. A more detailed account of their use is given in Section 8, The Mailing Lists.

NC-X2, Listing of Additional Establishments—This form was included with the census of manufactures forms mailed to multiestablishment companies in order to obtain a list of establishments that were acquired after the NC-X1A was filed. These additional plants were classified, added to the NC-X1A directory list, and mailed the appropriate 1977 economic censuses report forms. Plants under construction but not in operation were requested to report the value of construction put in place during 1977 and the total gross book value of assets in place at the end of the year.

NC-X3, General Schedule—This questionnaire was designed to obtain information from small companies for which the industry code available in the SSA records was not precise enough to indicate which one of the standard census questionnaires should be mailed. The information provided on form NC-X3 was used to classify these companies by industry and tabulate their data in the appropriate census.[14]

NC-X6, Administrative Offices or Auxiliary Establishments—Many multiunit companies maintain separate establishments to provide centralized administrative management, or other supporting services for other establishments of the same company, but not for the general public or other companies. They were asked to complete form NC-X6 for those establishments. The form contained questions on the approximate number of employees engaged in such functions as centralized administration, research and development, warehousing, and other auxiliary activities, and on the cost of research and development work performed by these nonmanufacturing establishments. The respondent was also asked to describe the industry activity of the operating establishments serviced by the centralized office or auxiliary unit reporting on form NC-X6.

NC-K1, Company Summary Report—Each multiunit company with 250 employees or more received a form NC-K1, Company Summary Report, in addition to a specific questionnaire for each establishment. The NC-K1 requested consolidated company totals for receipts, new capital expenditures, inventories, and fixed assets, which are published as part of the Bureau of the Census' Enterprise Statistics Program described in section I.

Census of manufactures forms—The questionnaire reproduced in the appendix, form MC-36B, is typical of the approximately 200 forms used for operating manufacturing establishments. Each of these forms was designed to be used for a specific group of industries. Since it is desirable to retain comparability in the annual survey of manufactures for establishments reporting in the sample, form MA-100 was substituted as the front sheet of the census form (e.g., MC-36B) to collect the information common to all industries. Whether or not form MA-100 was used, the inquiries on the 200 forms were identical except for the detailed questions on products shipped, materials used, and miscellaneous topics such as operations performed, equipment used, and delivery of products.

Short forms—Some industries include a large number of small- to medium-sized firms that account for a significant portion of the industry's output. Usually, these firms are not so small that the limited data in the administrative record files would meet the needs of the census. To obtain sufficient data, yet hold the reporting burden down for these smaller firms, special abbreviated short forms were designed. They obtain the key input and output statistics without the detail requested on the standard forms. A sample form is included in appendix D.

Annual survey of manufactures forms—Form MA-100 is the establishment report used in the ASM since 1949 (with modifications). The establishment's 1976 data were imprinted on the report form before mailing, thus aiding the respondent in following the instructions for the census. Item 11-A, "value of products shipped and other receipts," on form MA-100, corresponds to item 18 on the census forms such as MC-36B.

In years between censuses, the ASM collects data for broad classes of products; whereas, every 5 years, in the census, item 18 calls for information or individual product shipments.

Other related forms—Form CB-50F, Census of Distributive Trades Electrical Goods, which is reproduced in appendix D, is typical of the several forms used for wholesale establishments in the census of business. Some manufacturers operate their own wholesale establishments which the Bureau of the Census classifies as "manufacturers' sales branches and sales offices." The wholesale forms differed only in the kinds of products sold as listed in item 10. Item 18 provides the information needed to classify the establishment as a sales branch or sales office.

MC-171, Department of Defense Establishments, and MC-D4, Penal Institutions—These forms were used to collect information on government-owned and government-operated manufacturing establishments. They were used for two types of establishments:

[14] The use of form NC-X3 is also discussed in item B, Mailing Lists.

a. Manufacturing facilities owned and operated by the Department of Defense.
b. Prison industries (Federal, District of Columbia, and State).

The data were prepared with the cooperation of the Department of Defense, the Department of Justice, and the District of Columbia and State prison systems. For Department of Defense installations, information was provided on employment, worker-hours, payrolls, cost, and value of work done, by industry group and by State. For prison industries, however, only product data were requested. The data are presented in a special report included in volume I and are not included in the totals for operating manufacturing establishments.

8. MAILING LISTS

General—As discussed in item 6, the list of respondents for 1977 was obtained from IRS-SSA records. Since the IRS-SSA lists consist essentially of the names and addresses of companies rather than establishments,[15] it was necessary to follow separate procedures for multiunit companies (those operating at more than one location).

The precanvass—Multiunit companies were required to file at least one establishment report[16] covering each location. In order to mail the appropriate questionnaires, it was necessary to determine the type of activity at each location operated by multiestablishment companies. The Bureau of the Census has conducted an annual update of its directory of establishments operated by large companies in which Report of Company Organization (form NC-X1)[17] is mailed each year to multiunit companies.

All of these forms consist of a report on company affiliation and a list of the domestic establishments operated by the company. The company's establishments as identified in census records are prelisted and the respondents are asked to correct this list. They are also asked to describe new establishments not prelisted and indicate their approximate size.

Large multiunit companies are segregated for special handling because of possible overlaps and duplication. Many of these companies are active in retail and wholesale trade as well as in manufacturing. The reporting instructions are reviewed in discussions with officials of the accounting departments of many of these firms to make certain that the procedure is understood and the establishments are properly described on form NC-X1.

Single-unit companies—The mailing lists for single-unit companies (those operating at only one location) were developed from an initial control file assembled from IRS and SSA records. Out-of-scope companies (those whose activities were not to be surveyed in the economic censuses) and those identified as multiunits in the multiunit directory were removed. A special survey of out-of-scope companies with more than 50 employees was conducted, in some industries, to make certain they should not be included in the census. Some names were added to the mailing list as a result. Single units with over 150 employees were mailed form NC-X1 to determine if they were multiunits.

The final step was to identify the small companies which were not to be mailed because census-type statistics were to be developed from administrative records. The remaining records constituted the mailing lists for single-unit companies.

General schedule—While these lists generally contained adequate industry information to determine the proper form for mailing, a number of the records did not have precise industry information associated with them. Form NC-X3, General Schedule, which is reproduced in appendix D was mailed to these companies. Since it was assumed that these companies were quite small, only a few key figures were requested. The completed reports were coded and included in the tabulations. If form NC-X3 indicated that the company was actually large, it was later requested to file one or more of the appropriate standard questionnaires.

9. COVERAGE AND ACCURACY

Since the list of companies obtained from IRS and SSA records was considered to be complete, no field coverage check was conducted. The precanvass and other special procedures for multiunit companies described in item 8, Mailing Lists, and item 11, Data Collection, were designed to secure complete lists of establishments; thereby simplifying the IRS-SSA company list. Control totals, in terms of employment and payrolls of multiunit companies, were also used to verify the completeness of establishment coverage.

It was possible to compare statistics tabulated from the census of manufactures with the Bureau of the Census' Current Industrial Reports Series, or with data originating with other agencies and, thus provide a further confirmation of completeness and accuracy. These figures range from employment and wage totals compiled by the Bureau of Labor Statistics to detailed commodity output figures published by the IRS, the Fish and Wildlife Service, and the Department of Agriculture. In the industry reports in volume II, differences between the census of manufactures and other statistics are explained wherever possible. Census of manufactures comparability with broad measures such as national income, new capital expenditures, and production indexes are discussed elsewhere in this introduction. The Bureau of the Census' other procedures designed to improve the accuracy of the census data are discussed above in the items on data collection and processing.

[15] The SSA records for multiunit companies identify "reporting units," which in many instances correspond to census establishments. The differences are such, however, that it was found necessary to obtain up-to-date lists of establishments as described in this section. Also, the Bureau of the Census concept of a company differs from the IRS-SSA definition, since the census company includes all establishments under common ownership or control. In the IRS-SSA records, subsidiary corporations are often treated as independent companies.

[16] If two or more distinct lines of activity were carried on at one location, separate reports were obtained under some circumstances. (For a complete discussion, see "Establishment Basis of Reporting" in section 4.)

[17] This form is reproduced in appendix D.

A discussion of the valuation of intracompany shipments by multiunit companies is included in item 15.

10. GEOGRAPHIC CODING

Accurate and complete information on the physical location of each establishment is required in order to tabulate the census data by standard metropolitan statistical areas, counties, and cities. As in previous censuses, the post office address and ZIP code of the establishment were not always accepted as defining the physical location, but respondents were required to describe the actual location in terms of street address; city, town, or village; county; and State. For establishments located in rural territory, the name or number of the nearest highway was requested and the distance from the nearest town or other urban place.

In censuses prior to 1963, clerks assigned geographic code numbers to each establishment based on the description furnished by the respondent. This process was slow and required careful verification. Beginning with 1963, a computerized system was developed which assigned an area code number and a prefix symbol to the mailing address before the questionnaires were mailed. The prefix symbol indicated whether or not the mailing address was clearly acceptable as describing the physical location. If there was any question about its acceptability, the respondent's description was later carefully reviewed after the questionnaire was received. The assignment of tentative code numbers by the computer was based on extensive reference files containing nearly a million business names and addresses.

11. DATA COLLECTION

Although the greater use of administrative records in 1977 substantially reduced the number of companies canvassed directly, there remained nearly 2 million which were required to file, including about 205,000 manufacturers. Small manufacturers, for whom the administrative records sufficed, numbered about 145,000. The assembly of several hundred different questionnaires into mailing packages correctly labeled and coded, combined with the correct instruction booklets, was an extensive operation.

Most of the 1977 questionnaires were mailed by mid-January 1978 with a due date of February 15. The collection phase was completed by late July 1978.

Companies which did not return their questionnaires by the due date had to be reminded that their returns were overdue. In all, there were five routine followups. Telephone calls were made to the large companies to help with reporting problems and to request that the forms be completed and returned.

Estimates based on data from administrative records were included in the census tabulations for the relatively small number which had not responded by the closeout date in July 1978. Thus, reported or estimated data for all companies and establishments in the original mailing list (except those determined to be inactive during 1977) were included in the final statistical results. A special effort was made to obtain actual returns from all large firms, so that the dollar volume of business represented by proxy returns was relatively very small.

12. DATA PROCESSING

General—The editing,[18] coding, and tabulation of data for the 5 million establishments represented in the 1977 economic censuses was a complicated task. Automatic data processing and other advanced techniques were used in all phases.

The questionnaires were mailed from and returned to the Bureau of the Census office at Jeffersonville, Ind., where most noncomputer (that is, clerical) processing operations were performed. The returns were screened to identify major problems that could be resolved by routine correspondence with respondents. Acceptable data were placed on a key-to-disc system, and the encoded data sent to Washington, D.C. on a high-speed transmission system. The Washington, D.C. staff handled computer operations and all operations in connection with the use of IRS and SSA records.

Preliminary screening—After they were checked in and assigned geographic codes, the questionnaires were reviewed clerically to see that they conformed to certain minimum requirements before further processing. For multiunit companies, the sum of employment and payrolls reported on its establishment questionnaires was compared with the control totals received on IRS form 941. Questionnaires received on single-unit forms were reviewed to ascertain whether they had become multiunits through merger or acquisition. Questions arising in the screening operation were resolved by writing or telephoning the respondents. Complex problems were referred to the Washington, D.C. professional staff.

Computer editing—As in the 1972 Census of Manufactures, most of the review for consistency among data items and completeness was done on the computer. Average values and tolerance limits for key operating ratios (for example, cost of materials per dollar of shipments, payroll per employee, production-worker wages per hour, etc.) played a fundamental role in the editing process. More than half of all 4-digit SIC industries had one or more data cells changed by more than 5 percent as a result of the application of these programs.

A detailed description of the step-by-step processing procedures appears in the Bureau of the Census publication, History of the 1977 Economic Census. This volume describes the procedures followed in both the centralized overall processing and in the individual censuses such as manufactures.

[18] In data processing, the term "editing" means the review of information collected on questionnaires or from other sources, with the objective of locating and correcting erroneous entries.

III. Comments on Statistical Measures and Tables

(Explanations and definitions of the various measures of activity for which statistics are compiled in the census of manufactures are presented in appendix B. In the following text, the limitations and other characteristics of some of these measures are discussed, the content of the statistical tables is described, and comparisons with other statistical series are presented.)

13. EMPLOYMENT AND PAYROLLS IN ADMINISTRATIVE OFFICES AND AUXILIARIES

In the industry chapters of volume II, the data on employment and payrolls are limited to operating manufacturing establishments. In the summary tables and the area reports, the employment and payrolls of administrative offices and auxiliaries are included as well. The report filed for administrative offices and auxiliaries requested a description of the activity of the establishments that they serviced. However, the administrative offices and auxiliaries were coded only to the 2-digit industry group of the establishments they served, whereas the operating establishments were coded to a 4-digit manufacturing industry. In most of the tables with industry detail, the administrative offices and auxiliaries are shown as a separate industry group, but statistics for them by 2-digit industry appear in each volume in the general summary tables. As indicated in table H, the relative importance of administrative offices and auxiliaries has increased substantially in recent years because of a tendency to centralize functions formerly performed in manufacturing plants. Such functions include accounting (particularly where computerized), warehousing repair services, and miscellaneous others.

Table H. **Employment in Administrative Offices and Auxiliaries and in Operating Manufacturing Plants: 1977 and Earlier**

Census year	Employees in operating manufacturing establishments		Employees in administrative offices and auxiliaries		
	Thousands of employees	Percent change from previous census year	Thousands of employees	Percent change from previous census year	Percent of total employment[1]
1977	18,516	+2.7	1,074	+8.0	5.5
1972	18,032	-2.5	994	+19.8	5.2
1967	18,492	+14.0	830	+14.3	4.3
1963	16,235	+5.3	726	+20.6	4.3
1958	15,423	-1.4	602	[1]+32.9	3.8
1954	15,645	(NA)	453	(NA)	2.8

(NA) Not available.

[1]The apparent increase from 1954 to 1958 is believed to be somewhat overstated, because coverage of administrative offices and auxiliariea was more complete in the 1958 census.

Source: Census of Manufactures.

14. MATERIALS CONSUMED

Every establishment was requested to report the total cost of materials. In addition, quantity and cost information was collected for approximately a thousand specific materials. About 350 of these were "complete coverage" materials; i.e., every industry that consumed appreciable quantities of the material was canvassed so that the data would aggregate to at least 90 percent of manufacturing consumption. For the remaining materials, information on consumption was obtained only in those industries in which the materials were important inputs. Detailed consumption information was collected in item 17, the standard material inquiry; in item 18, the product inquiry (for items that were produced and consumed in the same plant); and in a few instances in a special inquiry. The resulting statistics are presented mainly in tables 6a and 7a of the industry chapters, in volume II.

Because American industry uses an enormous variety of materials, the choice of materials for which "complete coverage" consumption data (90 percent or higher) were obtained had to be strictly limited. The selection of a particular material for such coverage was based on the following criteria:

a. The importance as measured by the total value of U.S. consumption of the material.
b. The percentage of total consumption accounted for by manufacturing establishments.
c. The availability of consumption information from manufacturers' records.
d. Other factors such as the strategic importance of the material or the availability of historical data on the use of the material.

The "limited-coverage" materials were chosen, not only because they constituted important inputs for particular industries, but frequently because they provided information necessary to classify plants by SIC industry. In using the detailed data on materials consumed which appear in table 7 in the industry chapters of volume II, the following limitations should be noted:

a. Materials were reported for the establishment as a whole and no attempt was made to ascertain how much of the material was used in each of various products. Thus, the industry totals appearing in table 7 include consumption in secondary products as well as primary products

of the industry. The extent of secondary production in each industry is measured by its specialization coverage ratio shown in table 5b of the industry chapters.

b. Special attention should be paid to the codes ending in "000" and captioned "materials, parts, containers, and supplies, n.s.k." The amounts appearing on these lines are totals imputed for (1) establishments whose statistics were developed from administrative records, and (2) totals for establishments which returned report forms but failed to report their consumption in specific terms. Thus, for most industries, the data for a specific material are understated. A judgment on the statistical significance of the understatement may be made from the ratio of the value shown for the "n.s.k." (code 000) to the total of materials, components, parts, containers, and supplies for the industry.

c. Establishments consuming less than a specified amount of material were not requested to report consumption of the material separately. For the majority of individual materials, the minimum amount was $10,000. The use of this cutoff is not believed to have had a significant effect on the totals, although in 1972 a lower cutoff of $5,000 was used.

d. A total of "n.e.c." material code 970099 was collected on most forms and is published for each industry. This is the total cost of materials for an industry for which no material items were prelisted on the form. A sample survey, MA-131, 1977 Supplemental Survey of Materials Consumed, was conducted to provide material consumption estimates for the cost of materials reported in material code 970099 for selected industries. Results of this survey are shown in the subject report Selected Materials Consumed.

15. VALUE OF SHIPMENTS

Value of shipments of multiunit companies—Except for a few industries, the respondents were instructed to report net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Multiunit companies were instructed to report for each establishment as if it were a separate economic unit and, in particular, to report interplant transfers at their full economic value. Full economic value is defined as not only the cost of production but also a reasonable proportion of company overhead and profits. Generally, there is no advertising or other selling cost assigned by companies to interplant transfers, so it would be expected that the value per unit of such transfers would be less than that for commercial sales. To assure consistency in the valuation as the interplant transfer moved though the company, the plant receiving the transferred goods was instructed to include them in its cost of materials at the same value as at the shipping point, plus the cost of freight and other handling charges.

If the goods were transferred to sales branches, or sold through separate sales offices, the "f.o.b. plant" instruction implies that the value is somewhat lower than the final invoice value, because the cost of selling (mainly the cost of operating the sales branch or office) is excluded.

However, there is reason to believe that these instructions were not followed uniformly by all companies. In a record-keeping practice study of 54 multiunit companies conducted a few years ago, it was found that about half of them had reported interplant transfers of semifinished products at commercial or market prices, which tend to be somewhat higher than the "cost plus overhead and profit" requested in the census instructions. Where finished products were transferred to separate selling organizations, half of the companies interviewed valued the products leaving the manufacturing plant at their final or invoice price, or somewhat higher than the requested "f.o.b. plant" transfer value. It appears from this study and other observations that the value of shipments of products reported by multiunit companies tends to be overstated. If it was known that a substantial amount of a product tended to be transferred to establishments of the same company, separate quantity and value figures were requested on the amount transferred and the amount sold outside the company. Data on these shipments, the unit value of which tends to be different from the unit value for shipments outside the company, are presented separately in table 6a in the industry chapters of volume II.

Individual products—In the 1977 census program, information was collected on the output of approximately 13,000 individual product items.[19] A "product" as used in the census of manufactures is the finest level of detail for which output information was requested. It is not necessarily synonymous with the term "product" as used in the marketing sense. In some cases, it may be much more detailed and, in other cases, it is more aggregative. For example, there is a long list of pharmaceutical preparations but a single item for all canned meats. If detailed production figures were available from other government sources or reliable private surveys, it was not considered necessary to request extensive detail in the census.

Some 6,000 of the product items were listed separately on the 1977 census report forms. Data for the remaining 7,000 products were obtained monthly, quarterly, or annually in commodity surveys of the current industrial reports program of the Bureau of the Census. Totals for the year 1977 for these items compiled in the commodity surveys are shown in table 6a, "products shipped," in the industry chapters of volume II. On the 1977 census forms, only an overall control total or "tieline" was obtained. In table 6a, both the tieline total and the total of the detail obtained in the current industrial reports are shown to indicate how closely the two surveys were reconciled.

Typically, both quantity and value of shipments were collected. However, physical quantity measures are not meaningful for some product lines, and for these, only value of shipments was collected. If a product was used to a large degree in the fabrication of other products within the same establishment in which it was produced, total quantities produced and often the quantities consumed were collected. Information on production, as well as shipments, was also collected for products for which there are significant differences between the two

[19] See 1977 Census of Manufactures MC77-R-1, Numerical List of Manufactured Products.

because of wide fluctuations in finished goods inventories. Alternate measures of output of products, such as value of work done for products with long production cycles, were used as appropriate and feasible.

Classes of products—The individual products were aggregated into classes of products which were, in turn, grouped into the primary products of each industry. In the code structure, a 7-digit number is assigned to the individual product, a 5-digit code to the class of product, and a 4-digit code to the total primary products in an industry. (See section 4 for application of coding structure to the assignment of SIC codes for establishments).

The 13,000 product items in the 1977 census (including products from the current industrial reports program) were grouped into approximately 1,500 separate product classes. General similarity was the basis for the product class combinations within each 4-digit industry, i.e., kind or use of products, the manufacturing processes, type of markets, or materials used. The economic significance of the class was also taken into account; residual products of an industry were grouped when the dollar value of the products did not warrant separate classes.

Since preserving confidentiality of the data of respondent companies is a determinant of the amount of detail that can be published, the larger number of respondents included in the product-class shipments totals permits many more cross tabulations than do the 7-digit products. In the industry chapters of volume II, product classes by State appear in table 6b and by industry of the establishment producing them in table 5c. The latter table clearly shows the primary and secondary product mix of an industry, as well as the interrelationship between the 4-digit industry value of shipments and the 4-digit product group value of shipments.

It is possible to classify individual establishments not only by 4-digit industry, but also by the largest class of products they produce within that industry. Table 5a provides finer industry-type general statistics for establishments classified according to the degree to which they specialize in producing a specific class of products.

The class-of-product concept was incorporated by the Bureau of the Census into the 1947 Census of Manufactures after it developed the technique in the compilation of World War II production statistics. Product classes were used to collect product information in the first ASM conducted in 1949. The product classes tend to be redefined more frequently than the SIC on which they are based in order to keep abreast of the growth and decline of products.

Effect of use of administrative records on product data—As noted elsewhere in this Introduction, 140,000 small manufacturers were not mailed report forms and most of their detail was imputed based on limited information in IRS and SSA administrative records. All of the value of products of these small establishments were coded only to the 4-digit products of the industry in which they were classified. These product shipment are uniquely identified in table 6a. Also uniquely identified are product shipments of reporting companies which were described too generally to code below the 4-digit level. Frequently, these were residuals in the company's records which the company felt it could not further break down. Table I, summarized by 2-digit group, reflects the importance of these "n.s.k." product shipments. Except in a few industries, they tend to be moderate in size—except in lumber, furniture, and printing (SIC 24, 25, and 27). The "n.s.k." of the respondents tends to be larger than that of the administrative records.

One factor tends to reduce the value of products, n.s.k., attributed to administrative record companies that affects table I, particularly. In some 4-digit industries, there is only one product category (an example is Industry 3273, Ready-Mixed Concrete). Administrative-record estimates for these products were treated as specific information and not tabulated as "n.s.k." headings.

In using the data for the specific 7-digit products shown in table 6a, the importance of the "n.s.k." has to be considered. The shipments of individual products tend to be understated somewhat in proportion to the size of the "n.s.k." Census-to-census comparison of 7-digit products should be made with caution if there has been a significant increase or decrease in the importance of the n.s.k.

16. DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

The aggregates of the cost of materials and value of shipments figures for industry groups, and for all manufacturing industries, include large amounts of duplication since the products of some industries are used as materials by others. With some important exceptions, such as SIC 3312, Blast Furnaces and Steel Mills, this duplication is not significant within individual 4-digit industries. However, it is significant at the 2- and 3-digit industry levels because these group totals often include industries which are successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the total value of shipments of SIC major group 20 and the addition of pulpmills to papermills in group 26. Economists have estimated that the value of manufactured products exclusive of such duplication—the value of finished manufactures—tends to approximate two-thirds of the total value of shipments reported in the census of manufactures.

Because the amount of duplication of the cost of materials in the value of products figures cannot be measured with any degree of precision, caution is urged with the use of the value of shipments totals at the 2- and 3-digit industry group levels.

Even where there is no significant amount of duplication within an industry group, value of shipments figures are not the best measures of the relative economic importance of individual manufacturing industries or geographic areas. There are wide variations in the ratio of materials, labor, and other processing costs to value of shipments; both among industries and within the same industry. The manufacturing process contributes only a small amount to the sales value of some products; but a large amount to the final value of others. Value added by manufacture is a better measure of the net contribution of an industry to the Nation's overall output.

Table I. **Value of Products, Not Specified by Kind: 1977 and 1972**

Product group code	Total value of product shipments (mil. dol.)		Products not specified by kind											
			Total (mil. dol.)		Large companies (mil. dol.)		Small companies (mil. dol.)		Percent attributed to--					
									Total		Large companies		Small companies	
	1977	1972	1977	1972	1977	1972	1977	1972	1977	1972	1977	1972	1977	1972
Total	1,287,117.8	739,426.8	65,064.9	35,968.3	43,057.2	25,132.6	22,007.7	10,835.7	5.1	4.9	3.3	3.4	1.7	1.5
20	177,357.2	106,779.6	10,836.6	5,700.5	7,446.0	4,302.6	3,390.6	1,397.9	6.1	5.3	4.2	4.0	1.9	1.3
21	8,524.9	5,540.2	54.3	40.8	38.2	32.3	16.1	8.5	.6	.7	.4	.6	.2	.1
22	39,439.5	30,884.3	1,243.0	833.3	871.9	672.3	371.1	161.0	3.1	2.7	2.2	2.2	.9	.5
23	38,876.5	29,247.5	4,207.2	2,435.6	3,213.0	1,728.9	994.2	706.7	10.8	8.3	8.3	5.9	2.5	2.4
24	38,110.0	22,919.6	5,312.9	2,999.3	3,470.8	1,405.0	1,842.1	1,594.3	13.9	13.1	9.1	6.1	4.8	7.0
25	16,162.9	10,843.2	1,763.4	1,155.5	1,195.3	848.5	568.1	307.0	10.9	10.6	7.4	7.8	3.5	2.8
26	50,350.3	27,227.4	1,883.4	791.2	1,341.3	677.6	542.1	113.6	3.7	2.9	2.7	2.5	1.1	.4
27	46,692.4	29,347.5	6,091.9	3,433.1	4,167.9	1,891.6	1,924.0	1,541.5	13.0	11.7	8.9	6.4	4.1	5.3
28	109,724.4	53,038.9	3,453.6	1,567.3	2,122.4	1,140.7	1,331.2	426.6	3.1	3.0	1.9	2.2	1.2	.8
29	93,945.7	27,349.6	776.6	330.0	674.8	255.6	101.8	74.4	.8	1.2	.7	.9	.1	.3
30	38,237.2	19,963.5	3,297.5	1,360.3	2,508.3	1,048.3	789.2	312.0	8.6	6.8	6.5	5.2	2.1	1.6
31	7,122.3	5,472.0	594.7	335.0	488.2	242.4	106.5	92.6	8.3	6.1	6.8	4.4	1.5	1.7
32	33,780.9	21,139.7	1,756.8	1,042.1	1,164.2	678.7	592.6	363.4	5.2	4.9	3.4	3.2	1.7	1.7
33	99,044.8	71,058.4	1,469.7	1,225.0	822.7	1,069.8	647.0	155.2	1.5	1.7	.8	1.5	.7	.2
34	85,593.8	51,167.1	6,059.9	3,677.9	3,976.7	2,847.1	2,083.2	830.8	7.1	7.2	4.6	5.6	2.4	1.6
35	115,329.9	60,212.7	7,624.6	4,085.9	4,557.9	2,699.2	3,066.7	1,386.7	6.6	6.8	4.0	4.5	2.7	2.3
36	83,014.3	49,958.8	2,988.2	1,464.2	1,650.0	1,148.2	1,338.2	316.0	3.6	2.9	2.0	2.3	1.6	.6
37	161,607.6	91,522.0	1,999.9	1,413.5	1,084.9	1,126.8	915.0	286.7	1.2	1.5	.7	1.2	.6	.3
38	26,949.1	14,484.8	1,277.4	556.1	662.6	413.8	614.8	142.3	4.7	3.9	2.5	2.9	2.3	1.0
39	17,254.1	11,270.0	2,373.3	1,521.7	1,600.1	903.2	773.2	618.5	13.8	13.5	9.3	8.0	4.5	5.5

Note: These values are product shipments, irrespective of the industry in which the products were made and exclusive of miscellaneous receipts, and, therefore, differ from the industry group totals shown in the general summary tables. However, products primary to more than one product group are classified based on the industry in which they were made. Data for some product groups may differ slightly from the data collected in order to avoid disclosing operations of individual companies which have previously been withheld from the tables 6a of the 1977 and 1972 Censuses of Manufactures Industry Series.

17. VALUE ADDED BY MANUFACTURE

General—The first step in the calculation of value added is the conversion of the value of shipments (including resales and miscellaneous receipts) to value of production by adding the ending inventory of finished foods and work in process inventories and subtracting the beginning inventory. The cost of materials (including materials, supplies, fuel, electric energy, cost of resales, and cost of contract work) is then subtracted from this value of production to obtain value added.[20]

Value added avoids the duplication in the value of shipments figure which results from the inclusion of the shipments of establishments producing materials and components, along with the shipments of establishments producing finished products. It does not exclude the cost of services purchased from other business firms, as does the concept of value added, used in the national income accounts.[21] Nevertheless, it is considered to be the best value measure available in census data for comparing the relative economic importance of manufacturing among industries and geographic areas.

Gross national product, national income, and value added—The national income accounts provide two measures of national output or value added originating in manufacturing: (1) gross national product (GNP), or, more precisely, gross domestic product (GDP),[22] and (2) national income without capital consumption adjustment. These two measures are statistically different and neither is completely comparable to census value added.

GDP originating in manufacturing is the net value of the output of goods and services produced in the U.S. at market prices before deductions for depreciation charges and capital consumption allowances. It differs, in part, from the census value added since it includes indirect business taxes (e.g., sales, excise, and property). Excise and sales taxes are excluded from the f.o.b. census value of shipments and, thus, from census value added. Property taxes are part of the cost of doing business included in census value added, since only the cost of materials is deducted from f.o.b. shipments. A greater difference between GDP and census value added rests in the exclusion of purchased business services from GDP, but not from census value added. Both GDP and census value added include the basic factor costs of production—labor costs, property costs including depreciation, and profits. Depreciation in the two series is calculated differently, however. The census collects depreciation as carried on the books of the establishment. Thus, it tends to be the depreciation

[20] For a few industries (for example, ship building) where value of work done is substituted for value of shipments, no adjustment is made for change in inventories. In a few other industries where value of production is collected, the inventory adjustment is made only on the basis of change in work-in-process inventories.

[21] Collection of data on the cost of purchased business services at the plant level presents many problems. Advertising by multiunit companies, for example, is frequently charged at the company level and the cost either not allocated to plants or, if allocated, are only included as part of a broader company overhead category. National income data, on the other hand, are compiled, in part, from company rather than plant data, such as the IRS Statistics of Income in which advertising is presented as a separate cost item based on company reports.

[22] Gross national product is the market value of goods and services producted by labor and property supplied by *Residents* of the United States. Gross domestic product is the goods and services attributable to labor and property *located within* the United States.

charged against the original purchase price of the plant or equipment on a tax return basis. In calculating GDP, these tax return allowances are adjusted to account for the economic service lives, straight-line depreciation, and replacement cost.

In compiling the national accounts, it is necessary to rely on two different sources of data: (1) establishment-based data similar to the census for labor income, and (2) company-based data for profit and other company level income and cost charges. In estimating the GDP for manufacturing, the property-type incomes, interest, depreciation, and profit have been reestimated to an establishment basis by the Bureau of Economic Analysis (BEA). Thus, conceptually, both the GDP and value added tend to be on a comparable establishment-industry basis.

In the national accounts, 2-digit detailed statistics within manufacturing are compiled only on a national income basis, without the capital consumption adjustment. National income differs from GDP by the exclusion of indirect business taxes and capital consumption allowances, but before the capital consumption adjustment. Unlike GDP, it remains a mixture of establishment-based data and company-based data for profits and company-type costs. This results in the inclusion in national income of the net value added created by nonmanufacturing establishments of companies primarily engaged in manufacturing, but the exclusion of value added created by manufacturing plants of primarily nonmanufacturing companies. It is thought that this tends to raise the national income attributed to manufacturing. This effect can be seen in the petroleum and coal products industry group where nonmanufacturing activities are so significant that national income exceeds value added (see tables J and K).

Table K provides a year by year comparison of GDP and national income to value added. GDP tends to be 10 to 20 percent lower. In recent years, there are some erratic variations in these relationships. In part, this is thought to be the result of the different treatment of the change in inventory that is used in the two series. The census inventory figures are book value inventories and, thus, a mixture of last-in-first-out (LIFO) and first-in-first-out (FIFO) and other historic accounting methods. In the national income accounts, these inventories are converted to current prices comparable to the prices used to value the GDP, and, thus, the change in inventories is on a current-priced value consistent with sales. Significant differences occur in the change in book value and currently-priced inventories in years of rapidly changing prices. The magnitude of these differences can be partially judged by the size of the inventory valuation adjustment used by BEA (see table L).

Reconciliation of GDP and value added—In recent years, the census and the annual survey of manufactures have been obtaining data on some of the residual costs included in census value added. As a result, it is possible to reconcile in more detail the differences between GDP and value added in manufacturing. In table M, the census value added, at $585.2 billion, exceeded GDP at $462.4 billion. When indirect business taxes (other than property taxes) are deducted from GDP, it drops to $444.0 billion, or $141.2 billion less than census value added. The labor components of the two series are reasonably close, although not identical. Census depreciation, on a book value basis, however,

Table J. **Comparison of National Income Originating and Value Added by Major Industry Group: 1977 and 1972**

(Billion dollars)

SIC code	Industry group description	National income originating[1]		Value added by manufacturing		Column A divided by column C	Column B divided by column D
		1977	1972	1977	1972		
		(A)	(B)	(C)	(D)	(E)	(F)
	Manufacturing	411.5	252.3	585.2	354.0	.70	.71
	Nondurable goods	162.9	98.3	246.9	149.5	.66	.66
20	Food and kindred products	33.1	20.5	56.1	35.6	.59	.58
21	Tobacco manufactures	2.8	1.7	4.3	2.6	.65	.65
22	Textile mill products	12.3	8.4	16.1	11.7	.76	.72
23	Apparel and other fabricated textile products	13.7	9.8	19.7	13.5	.70	.73
26	Paper and allied products	15.5	9.5	22.2	13.1	.70	.73
27	Printing, publishing, and allied industries	21.0	13.5	32.0	20.2	.66	.67
28	Chemicals and allied products	30.8	18.2	56.7	32.4	.54	.56
29	Petroleum refining and related industries	18.7	6.7	16.4	5.8	1.14	1.16
30	Rubber and miscellaneous plastics products	12.2	7.7	19.7	11.7	.62	.66
31	Leather and leather products	2.8	2.2	3.7	2.9	.76	.76
	Durable goods	248.6	154.0	338.3	204.6	.73	.75
24	Lumber and wood products, except furniture	13.2	8.3	16.2	10.3	.81	.81
25	Furniture and fixtures	6.1	4.4	8.9	6.1	.69	.72
32	Stone, clay, and glass products	13.0	8.7	19.1	12.6	.68	.69
33	Primary metal industries	28.6	17.9	37.6	23.3	.76	.77
34	Fabricated metal products	31.7	19.4	45.5	26.9	.70	.72
35	Machinery, except electrical	47.9	27.7	67.2	37.6	.71	.74
36	Electrical machinery	36.4	22.6	50.4	30.6	.72	.74
19[2]	Motor vehicles and equipment	33.7	20.1	64.3	39.8	.82	.83
37	Other transportation equipment	18.9	13.1				
38	Instruments	11.9	7.2	18.7	10.6	.63	.68
39	Miscellaneous manufacturing industries	7.1	4.6	10.3	6.8	.69	.68

[1]Source: Survey of Current Business, July 1970; July 1979.
[2]This major group was recoded to major groups 34, 36, 37, and 38 in the 1972 SIC revision.

Table K. **Comparison of Gross Domestic Product, National Income Originating in Manufacturing, and Value Added by Manufacture 1977 and Earlier Years**

(Billion dollars)

Gross domestic product	Gross domestic product originating in manufacturing[1] [2]	National income originating in manufacturing[1] [2]	Value added by manufacture	Column A divided by column C	Column B divided by column C
	(A)	(B)	(C)	(D)	(E)
1977	462.4	411.5	585.2	.79	.70
1976	410.4	366.6	511.5	.80	.72
1975	358.2	317.7	442.5	.81	.72
1974	340.7	301.4	452.5	.75	.67
1973	326.1	285.3	405.6	.80	.70
1972	292.5	252.3	354.0	.83	.71
1971	265.6	226.5	314.1	.85	.72
1970	252.2	215.1	300.2	.84	.72
1969	256.7	221.9	304.4	.84	.73
1968	242.8	211.0	285.1	.85	.74
1967	222.3	193.7	262.0	.85	.74
1966	216.6	189.7	250.9	.86	.76
1965	197.7	171.3	226.9	.87	.76
1964	179.4	154.5	206.2	.87	.75
1963	167.4	143.8	192.1	.87	.75
1962	157.9	136.0	179.1	.88	.76
1961	144.4	125.0	164.3	.88	.76
1960	143.8	125.1	164.0	.88	.76
1959	141.3	124.3	161.5	.87	.77
1958	123.8	107.9	141.5	.87	.76
1957	131.4	116.3	147.8	.89	.79
1956	126.8	113.2	144.9	.88	.78
1954	106.4	94.7	117.0	.91	.81
1947	66.2	59.6	[3]74.3	.89	.80
1939	(NA)	18.1	[3]24.5	(X)	.74
1929	(NA)	21.9	[3]30.6	(X)	.72

(NA) Not available. (X) Not applicable.

[1]Source: Revised estimates of gross domestic product by major industries, Survey of Current Business, July 1978, p. 28; National Income and Product Accounts.

[2]In comparing gross domestic product and national income originating in manufacturing with value added, the role of change in inventories must be recognized. Census value added is value of shipments less the cost of materials adjusted for the change in book value inventories (finished goods and work in process in most industries.) Gross domestic product and national income originating in manufacture include the change in business inventories as part of gross private domestic investment. In the National Income Accounts, the book value change in inventories is adjusted for change in prices to convert it to prices similar to those used to measure the value of output. This adjustment is referred to as the inventory valuation adjustment. In periods of significant inflation, such as 1974, this adjustment can be substantial and create a slower year-to-year growth in gross domestic product originating than in value added in manufacturing, so there is a drop in gross domestic product and national income originating as a percent of value added in manufacturing. In periods of stable prices, the movements of the two inventory series usually are similar.

[3]Value added for 1947 and earlier years is unadjusted.

Table L. **Change in Manufacturing Inventories: 1977**

(Billion dollars)

Item	Value
Change in book value inventories (census)	$13.4
Inventory valuation adjustment	-8.4
Change in inventories (gross national product)	5.0

Note: In calculating gross national product, the Bureau of Economic Analysis uses the change in total inventories. In compiling value added, the Bureau of the Census typically uses finished goods and work in process inventories only. In 1977, these inventories were $9.3 billion compared with total inventories of $13.4 billion.

Source: U.S. Department of Commerce, Bureau of Economic Analysis.

is less than the GDP capital consumption allowance, adjusted for economic service lives, straight-line depreciation, and replacement cost. Census book-value depreciation was $26.7 billion, the adjusted GNP capital consumption allowance, $40.0 billion. After measurable labor costs and depreciation were deducted, unexplained census value was $231.4 billion compared with an explained GNP of $81.4 billion. Census has not been able to measure all the remaining components of value added, especially those parts which are company-type charges and profits. In 1977, information was collected on rentals and cost of communication services, and maintenance and repair purchased from other companies, a total of $22.4 billion, leaving the unexplained portion of value added at $209.0 billion. If the GDP estimates of $9.9 billion for property taxes and $71.4 billion for profits and interest payments are applied to this, there is a final unexplained portion of value added amounting to $127.7 billion.

This residual is attributable to company overhead other than central office payroll, e.g., company-level depreciation, business taxes, and purchased services (advertising, legal, accounting, and other professional services, patents, royalties, etc., not readily measurable separately at the plants).

18. CAPITAL EXPENDITURES AND GROSS ASSETS

Capital expenditures—The manufacturers were instructed to report expenditures of the type chargeable to fixed assets

Table M. COMPARATIVE STATISTICS ON CENSUS VALUE ADDED AND GROSS DOMESTIC PRODUCT: 1977

(Billion dollars)

Item	Census value added	GDP
Total	—	462.4
Less: Indirect tax (except property) business and not subsidies[1]	—	18.4
Equals	[1] 585.2	444.0
Less: Compensation of employees total	327.1	322.6
Census payrolls of operating plants	242.0	—
Census payroll supplements of operating plants	49.9	—
Census payrolls of central offices and auxiliaries	[2] 22.0	—
Census payrolls of sales branches offices	[2] 13.2	—
Equals	258.1	121.4
Less. Additional cost measured by census of manufactures	49.1	40.0
a. Included in GDP: Capital consump. allowance[3]	26.7	40.0
b. Excluded from GDP	22.4	—
Purchased communication service	3.6	—
Purchased maintenance and repairs	11.9	—
Rental payments, building and equipment	6.9	—
Equals: Residual costs included in census value added	209.0	81.4
Less: Costs or incomes assumed to be equal to those measured in GDP	93.6	81.3
Property tax	9.9	9.9
Interest and profit type income	71.4	71.4
Difference between census book value depreciation and GDP depreciation[3]	12.3	—
Equals: Remaining costs in value added (company overhead, other than payrolls included above: e.g., company-level depreciations, business taxes, and services purchased by company or directly by plants (advertising, legal, accounting, and other professional services; communications, patent fees, royalties, travel costs, etc.)	115.4	(.1)

[1] Census measures value of shipments exclusive of sales and excise taxes. Property taxes are a cost included in value added.

[2] There is strong evidence that most companies include the payroll of administrative offices and auxiliaries and all sales offices in setting the f.o.b. value of shipments from their manufacturing plants. Those costs are, thus, included in value added. Many companies also indicate that they include the cost of sales branches, although this may not be universally true (see "value of shipments" in text).

accounts, for which depreciation reserves are normally maintained. Actual capital outlays during the year were requested, not the final value of equipment put in place or structures completed during the year.

The Bureau of the Census estimates of capital expenditures tend to be lower than those published by BEA in its quarterly survey of expenditures for plant and equipment. In addition to normal sampling variation, a major source of difference rests in the scope of the two series. Census data relate only to manufacturing establishments.

The BEA series relating to manufacturing includes all establishments of manufacturing companies, nonmanufacturing as well as manufacturing, but excludes manufacturing establishments of companies that they have classified as chiefly nonmanufacturing. This difference in the two series is particularly important in the petroleum industry where company expenditures for developing new wells and new distribution facilities are ordinarily much larger than their capital expenditures at refineries. The BEA and Census data for recent years are shown in tables N and O.

Table N. Expenditures for New Plant and Equipment—BEA Series and Census: 1977 and Earlier Years

(Billion dollars)

Year	BEA-series[1]	Census (census of manufactures and ASM)[2]	Column B divided by column A
	(A)	(B)	(C)
1977	69.2	47.5	.69
1976	59.9	40.5	.68
1975	54.9	37.3	.68
1974	53.2	35.7	.67
1973	42.4	27.0	.64
1972	35.4	24.1	.69
1971	33.6	20.9	.62
1970	37.0	22.2	.60
1969	36.3	22.3	.61
1968	32.3	20.6	.64
1967	32.3	21.5	.67
1966	31.4	20.2	.64
1965	25.4	16.6	.65
1964	21.2	13.3	.63
1963	17.3	11.4	.66
1962	16.0	10.0	.63
1961	15.5	9.8	.63
1960	16.4	10.0	.61
1959	13.8	9.3	.67
1958	13.0	9.6	.74
1954	12.0	8.2	.68
1947	8.7	[2] 6.0	.69

[1] Source, U.S. Department of Commerce, Survey of Current Business, October 1980.

[2] Excludes data for establishments under construction but not yet in operation.

[3] Capital consumption allowances in GDP and depreciation as collected in the census are not completely comparable. Depreciation reported in the census is that carried on the books of the establishment and is charged against the original purchase cost of the assets. In the GNP accounts, a "capital consumption adjustment" is made to place the depreciation more on a replacement cost basis. Specifically, it is "the tax-return-based capital consumption allowances, less capital consumption allowances, that are based on estimates of economic service lives, straight-line depreciation, and replacement cost."

Source: Department of Commerce, Bureau of Economic Analysis, and Bureau of the Census.

Table 0. **Expenditures for New Plant and Equipment—BEA Series and Census of Manufactures, by Industry Group: 1977**

(Billion dollars)

Industry groups	BEA series[1]		Census of manufactures		Census as percent of BEA	
	1977	1972	1977	1972	1977	1972
All manufacturing	69.2	35.4	47.5	24.1	.69	.68
Durable goods	34.0	18.1	24.4	12.7	.72	.70
Primary metals	5.4	2.4	4.5	2.1	.83	.88
Fabricated metal	2.5	1.4	2.6	1.3	1.04	.93
Electric machinery	4.7	2.8	2.9	1.4	.62	.50
Machinery, except electric	6.6	3.2	4.4	1.9	.67	.59
Transportation equipment	9.1	4.4	4.7	2.7	.52	.61
Stone, clay, and glass	2.2	1.3	1.9	1.2	.86	.92
Other durables	3.5	2.6	3.4	2.1	.97	.81
Nondurable goods	35.2	17.3	23.2	11.4	.66	.66
Food and beverages	5.1	3.3	4.2	2.4	.82	.73
Textiles	1.3	1.1	1.2	1.1	.92	1.00
Paper	3.6	1.5	3.3	1.3	.92	.87
Chemicals	8.1	3.4	8.2	2.7	1.01	.79
Petroleum	12.7	4.8	2.3	1.2	.18	.25
Rubber	1.7	1.0	1.6	1.1	.94	1.10
Other nondurables	2.7	2.2	2.4	1.6	.89	.73

[1]Source: U.S. Department of Commerce, Survey of Current Business, October 1980.

Gross value of fixed assets--In addition to reporting capital expenditures during the year, the manufacturers were requested to report the original cost value of fixed assets (structures and machinery and equipment) in place at the end of the year, along with depreciation and retirements during the year. This series, however, is based on reports filed in the ASM sample. It is conceptually comparable with the capital expenditures data. As the census capital expenditures series differs from the BEA series, so the census gross assets series will differ from similar series based on company level reports, i.e., those appearing in the IRS Statistics of Income and the FTC Quarterly Financial Report of Corporations. Since the census assets series is also based on sample estimates from the ASM, it is subject to a sampling error. (See appendix B for more complete definitions of terms.)

19. INVENTORIES

The value of end-of-year inventories held by each manufacturing establishment was obtained for each year. Separate information was requested for—

a. Finished goods,
b. Work-in-process, and
c. Materials, supplies, fuel, and other inventories.

A measure of the changes in inventories from the beginning to the end of each year is essential to the conversion of value of shipments during the year to value of production, and, therefore, to the calculation of value added. The ratios of inventories to shipments at different times are also used in analysis of trends and business-cycle movements. For the best use of all of these measures, the inventories should be valued in the same prices as the shipments. Census inventory statistics have some limitations in these uses.

The inventories, as collected currently and in the past, have been the inventories as carried in the books of each respondent. In aggregating those inventories and calculating inventory changes, census procedures make no adjustments for the different methods of inventory valuation used by the respondents. Change in inventories and the relationship of inventories to shipments can vary significantly depending on whether last-in first-out (LIFO) or some historical method such as first-in first-out (FIFO) is used. These differences can become very significant in periods of rapid- and large-price changes. In recent years, the Bureau of the Census has been obtaining information on the preparation of inventories valued by the different accounting methods, both in its monthly surveys and the annual survey of manufactures. Some results have been published in the monthly Manufacturers' Shipments, Inventories, and Orders survey but none for the ASM. Considerable difficulty has been encountered in obtaining results of publication quality because of the complexity of the accounting at the establishment level and corporate level in large companies. Unofficial results have been made available to BEA to assist them in their adjustment of book value inventories to current and constant prices for use in the national income accounts. Some of the anomalies in the census value added and the national income originating in manufactures are due to the different treatment of inventory change in the two series.

In using inventory data by stage of fabrication for all industries at the industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and all manufacturing which are merely aggregates of figures reported by establishments in specified industries.

For a few industries in the food group, there are special problems in the handling of inventories by stage of fabrication. These are industries in which the products are aged. Included among such types of products are stemmed and dried tobacco, cheese, and whiskey. It is not clear whether such products should be treated as finished-goods inventories or as work in process while in storage. In all these industries, substantial finished goods inventroies have been reported. These data have been summarized in the inventory tables in a consistent manner for all of the years included in this report.

20. PLANT SPECIALIZATION

As discussed in item 4 above, the primary products of a plant are those which determine its industry classification; all other products are referred to as secondary products. The value of a plant's primary products in comparison to its total production is referred to as its degree of specialization. For each plant, two measures of specialization were computed:

a. A 4-digit primary product-specialization ratio, which is the sum of the values of all the plant's primary products divided by the sum of all its primary and secondary products.

b. A 5-digit primary product-class specialization ratio, which is the sum of the largest 5-digit product-class value divided by the sum of its primary and secondary products (the miscellaneous receipts of the establishment were not included in these calculations). For example, assume that an establishment reported the following:

Total value of shipments and other receipts	$1,000
Miscellaneous receipts (resales, etc.)	15
Total value of products shipped	985
32731, Concrete pipe products	100
32722, Precast concrete products	785
32730, Ready-mixed concrete	100

This plant would be coded into Industry 3272, Concrete Products, with a primary product specialization ratio of 90 percent ($885 ÷ 985); it would be subclassified into the 5-digit Class 32722, Precast Concrete, with a primary product class specialization ratio of 80 percent ($785 ÷ 985).

21. CONFIDENTIALITY

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. In suppressing figures to avoid disclosing information of individual companies, individual States are given precedence over geographic regions and divisions. This is an innovation for 1977, since in prior censuses the larger geographic areas were given precedence. As a result of this change in philosophy, it has become more difficult to produce industry detail for the larger geographic areas and data for the these areas are no longer published. States are given precedence over standard metropolitan statistical areas; standard metropolitan statistical areas over counties; and counties over cities.

In tables showing industry detail, major industry group (2-digit) totals take precedence over industry group (3-digit) totals which, in turn, take precedence over individual (4-digit) industries. Similarly, in product tables, 4-digit product groupings take precedence over 5-digit product classes and the latter over individual 7-digit products.

Such order of precedence was used because:

a. It was considered preferable to show State data for an industry, even at the cost of withholding data for a region. In recent years, there seemed to be more need for and use of data for individual States than for the larger regions—especially since many regional development programs encompassed clusters of States different from the standard regions and divisions.
b. By giving preference to industry-group statistics over individual industries within each State, the extent to which individual States can be compared within the SIC industry classification framework is greatly increased.

22. MICROFICHE AND COMPUTER TAPES

Data in many tables in the census volumes are available on microfiche and on computer tape.

One major data series, the Location of Manufacturing Plants, will be available only on computer tape. This series presents the number of establishments by employment size class by 4-digit SIC industry codes for States, counties, and places of 2,500 inhabitants or more. These data are available for both State and county by industry and State and place by industry.

Microfiche reports and computer tapes are sold by Customer Services (Microfiche/Tapes), Data User Services Division, Bureau of the Census, Washington, D.C. 20233.

23. SPECIAL TABULATIONS

Special tabulations of data collected in the 1977 Census of Manufactures may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, D.C. 20233.

24. ABBREVIATIONS

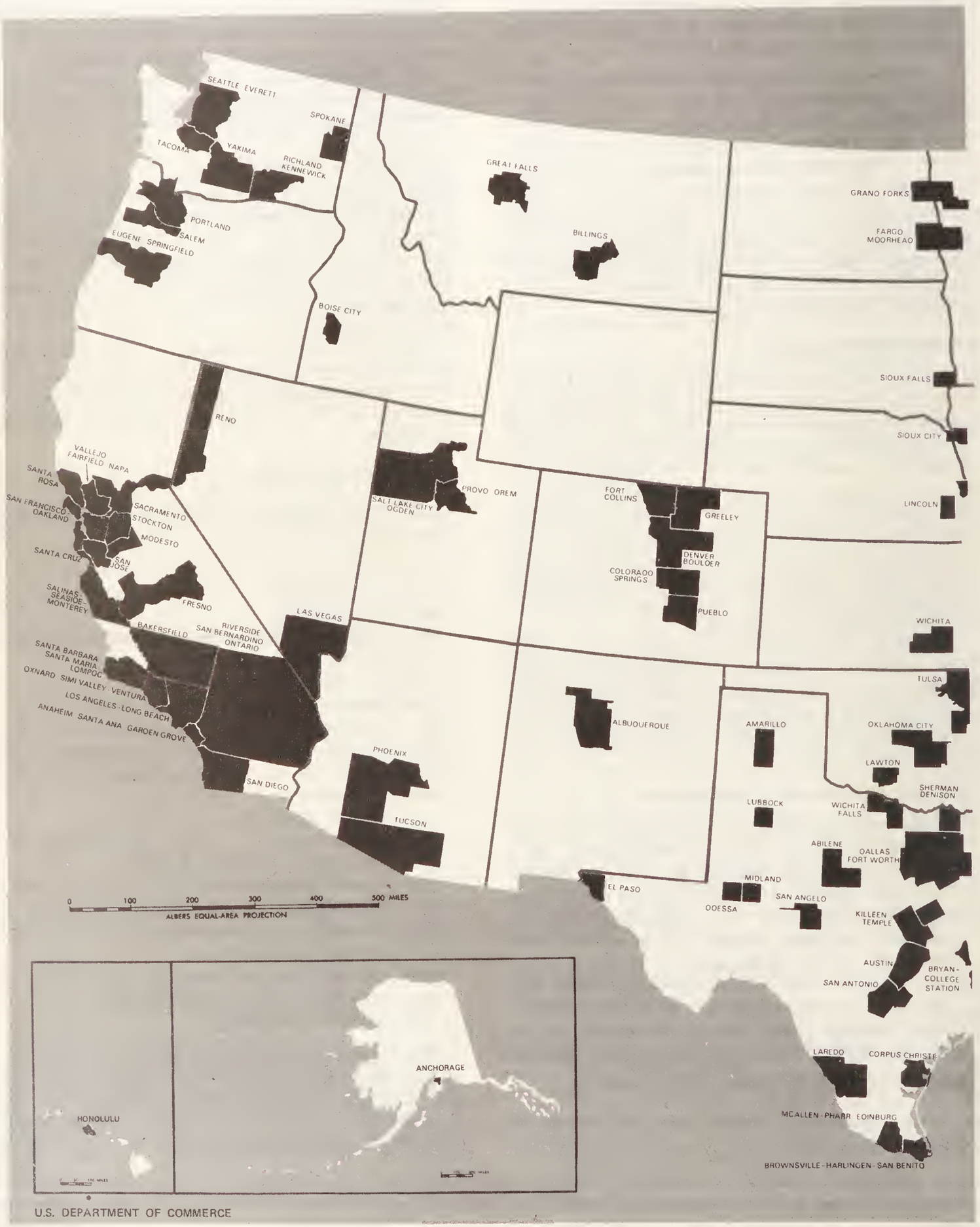
The following abbreviations and symbols occur frequently in text, tables, and footnotes:

—	Zero
(X)	Not applicable
(NA)	Not available
(D)	Withheld to avoid disclosing operations of individual companies
n.e.c	Not elsewhere classified
n.s.k.	Not specified by kind
(S)	Suppressed
(Z)	Less than one half of unit of measure shown
lin.	Linear
equiv.	Equivalent
hp	Horsepower
kWh	Kilowatt-hours
SIC	Standard Industrial Classification
IRS	Internal Revenue Service
SSA	Social Security Administration
ASM	Annual Survey of Manufactures
CIR	Current Industrial Reports
BEA	Bureau of Economic Analysis
SEC	Securities and Exchange Commission
GNP	Gross National Product

Other abbreviations, such as lb, gal, yd, doz, and bbl, are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "gross tons."

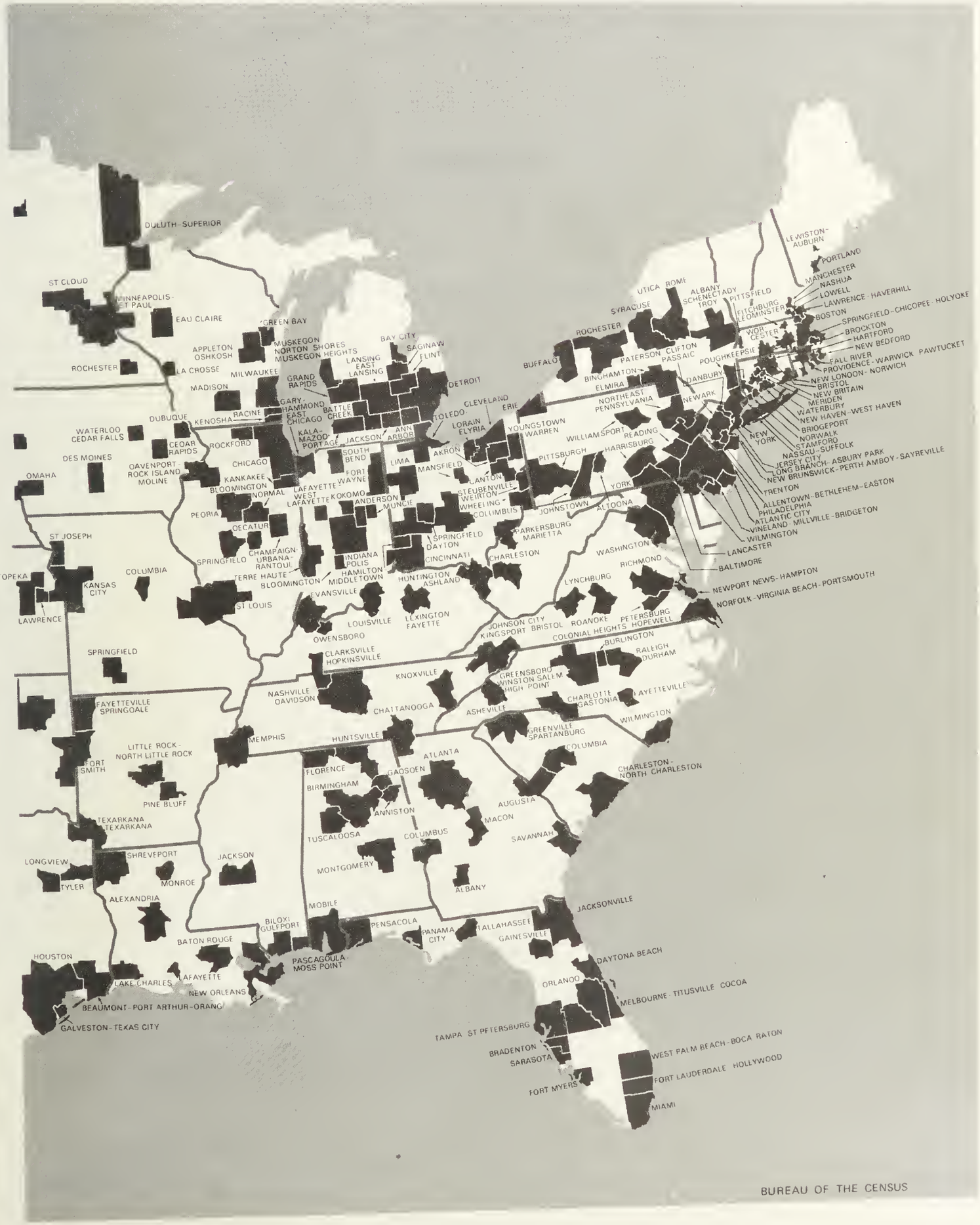
Data in this publication may differ slightly from the industry and area reports previously published. These differences are due to corrections which were made for minor errors identified after the industry and area reports were issued. This report reflects these corrections.

STANDARD METROPOLITAN STATISTICAL



U.S. DEPARTMENT OF COMMERCE

AREAS OF THE UNITED STATES



General Summary

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Table 1. **Statistics for All Manufacturing Establishments Including Administrative Offices and Auxiliaries: 1977 and Earlier Years**

Year	All establishments		All employees[1]		Production workers			Value added by manufacture[3] (million dollars)	Value of industry shipments (million dollars)	New capital expenditures[4] (million dollars)	Index of industrial[5] production (1977=100)
	Total (number)	With 20 employees or more (number)	Number[2] (1,000)	Payroll (million dollars)	Number[2] (1,000)	Hours (million)	Wages (million dollars)				
1977	359,928	118,699	19,590.1	264,013.1	13,691.0	26,686.7	157,163.7	585,165.6	1,358,526.4	47,459.0	100.0
1976[6]	(NA)	(NA)	18,753.0	233,388.7	13,052.0	25,354.2	137,565.4	511,471.1	1,185,695.3	40,669.9	94.5
1975[6]	(NA)	(NA)	18,302.2	209,519.0	12,568.9	24,069.6	121,429.0	442,485.2	1,039,377.4	37,262.1	84.8
1974[6]	(NA)	(NA)	19,844.4	208,312.0	13,927.1	27,251.0	124,977.1	452,497.0	1,017,873.4	35,546.1	94.4
1973[6]	(NA)	(NA)	19,844.8	193,324.5	14,232.8	28,096.9	118,332.6	405,583.6	875,443.2	26,972.9	94.7
1972	320,710	114,195	19,028.7	174,205.5	13,527.9	26,699.2	105,501.8	353,994.0	756,534.3	24,077.7	86.7
1971[6]	(NA)	(NA)	18,363.1	156,202.8	12,874.9	25,265.9	93,231.7	314,138.4	670,970.5	20,940.7	78.9
1970[6]	(NA)	(NA)	19,217.2	153,078.5	13,528.0	26,669.3	91,609.0	300,227.6	634,322.1	22,164.2	77.6
1969[6]	(NA)	(NA)	20,035.5	152,765.6	14,357.8	28,599.8	93,459.6	304,440.7	642,635.8	22,291.2	81.0
1968[6]	(NA)	(NA)	19,527.6	141,822.7	14,041.2	28,156.8	87,480.4	285,058.9	603,220.1	20,613.1	77.6
1967	311,140	110,256	19,323.2	132,208.4	13,955.3	27,837.6	81,393.6	261,983.8	557,397.8	21,503.0	72.9
1966[6]	(NA)	(NA)	19,024.5	125,350.0	13,826.5	28,102.5	78,256.4	250,880.1	538,736.9	20,235.8	72.1
1965[6]	(NA)	(NA)	18,010.2	113,972.2	13,076.0	26,567.8	71,361.5	226,939.9	492,005.7	16,615.0	64.9
1964[6]	(NA)	(NA)	17,268.5	106,403.3	12,403.3	25,245.5	65,838.9	206,193.6	447,985.1	13,294.3	59.1
1963	311,931	102,296	16,958.4	99,898.8	12,232.0	24,509.4	62,093.6	192,082.9	420,528.1	11,370.0	55.3
1962[6]	(NA)	(NA)	16,765.6	94,291.2	12,126.5	24,269.5	59,134.1	179,071.1	399,308.9	10,436.2	52.2
1961[6]	(NA)	(NA)	16,331.2	88,127.8	11,778.5	23,289.4	54,764.6	164,281.1	369,994.3	9,779.8	47.8
1960[6]	(NA)	(NA)	16,762.7	88,087.1	12,209.5	24,174.4	55,555.5	163,998.5	(NA)	10,097.8	47.7
1959[6]	(NA)	(NA)	16,662.2	85,642.0	12,272.6	24,443.6	54,714.1	161,535.8	(NA)	9,140.0	46.8
1958[7]	303,303	95,310	16,025.2	78,348.9	11,681.1	22,679.2	49,605.2	141,540.6	326,722.8	9,543.5	41.6
1957[6]	(NA)	(NA)	17,104.7	79,354.0	12,828.9	25,208.0	52,569.0	147,838.4	(NA)	12,144.0	44.6
1956[6]	(NA)	(NA)	17,178.3	77,059.0	13,131.3	26,088.5	52,040.8	144,909.3	(NA)	11,233.2	44.1
1955[6]	(NA)	(NA)	16,818.5	72,126.0	12,954.4	25,898.3	49,217.9	135,022.5	(NA)	8,233.1	42.5
1954[7]	(NA)	(NA)	16,125.6	65,977.0	12,372.0	24,334.1	44,590.5	117,032.3	(NA)	8,200.7	37.6
1953[6]	(NA)	(NA)	17,093.0	68,590.4	13,500.9	27,065.6	48,979.1	121,659.1	(NA)	8,047.9	40.3
1952[6]	(NA)	(NA)	16,061.0	61,140.6	12,706.0	25,617.6	43,763.6	109,162.1	(NA)	7,883.4	36.9
1951[6]	(NA)	(NA)	15,638.0	56,283.8	12,508.9	25,263.8	40,654.8	102,085.8	(NA)	7,781.7	35.4
1950[6]	(NA)	(NA)	14,769.9	47,892.9	11,778.8	23,716.5	34,600.0	89,749.8	(NA)	5,041.3	32.8
1949[6]	(NA)	(NA)	13,880.1	42,752.0	11,016.3	21,769.7	30,254.0	75,366.5	(NA)	5,066.9	28.2
1947	240,807	(NA)	14,294.0	39,695.6	11,917.9	24,316.5	30,244.0	74,290.5	(NA)	5,998.1	28.7
1939[8]	173,802	(NA)	[9]9,527.3	[9]12,706.1	7,808.2	(NA)	8,997.5	24,487.3	(NA)	(NA)	15.7
1937	166,794	(NA)	9,786.4	12,829.7	8,569.2	(NA)	10,112.9	25,173.5	(NA)	(NA)	(NA)
1935[7]	167,916	(NA)	8,262.3	9,564.8	7,203.8	(NA)	7,311.3	18,552.6	(NA)	(NA)	(NA)
1933	139,325	(NA)	6,557.9	[10]6,237.8	5,787.6	(NA)	4,940.1	14,007.5	(NA)	(NA)	10.2
1931	171,450	(NA)	(NA)	(NA)	6,163.1	(NA)	6,688.5	18,600.5	(NA)	(NA)	(NA)
1929	206,663	(NA)	9,659.7	14,284.3	8,369.7	(NA)	10,884.9	30,591.4	(NA)	(NA)	(NA)
1927	187,629	(NA)	9,072.1	13,123.1	7,848.1	(NA)	10,099.5	26,325.4	(NA)	(NA)	16.6
1925	183,877	(NA)	9,142.4	12,957.7	7,871.4	(NA)	9,979.6	25,667.6	(NA)	(NA)	(NA)
1923	192,096	(NA)	9,474.7	12,996.5	8,194.2	(NA)	10,148.6	24,569.5	(NA)	(NA)	(NA)
1921	192,059	(NA)	7,557.4	9,870.2	6,475.5	(NA)	7,451.3	17,252.8	(NA)	(NA)	(NA)
1919	270,231	(NA)	9,836.8	12,426.9	8,464.9	(NA)	9,664.0	23,841.6	(NA)	(NA)	(NA)
1914	268,436	(NA)	7,514.2	5,016.0	6,602.3	(NA)	3,782.3	9,385.6	(NA)	(NA)	(NA)
1909	264,810	(NA)	7,021.1	4,105.5	6,261.7	(NA)	3,205.2	8,160.1	(NA)	(NA)	(NA)
1904	213,444	(NA)	5,674.9	2,990.9	5,181.7	(NA)	2,440.9	6,019.2	(NA)	(NA)	(NA)
1899	204,754	(NA)	4,850.0	2,258.7	4,501.9	(NA)	1,892.6	4,647.0	(NA)	(NA)	(NA)
1899[11]	509,490	(NA)	5,478.3	2,595.6	5,097.6	(NA)	2,206.5	5,474.9	(NA)	(NA)	(NA)
1889	353,864	(NA)	4,586.5	2,209.1	4,129.4	(NA)	1,820.9	4,120.3	(NA)	(NA)	(NA)
1879	253,852	(NA)	(NA)	(NA)	2,732.6	(NA)	948.0	1,972.8	(NA)	(NA)	(NA)
1869	252,148	(NA)	(NA)	(NA)	2,054.0	(NA)	620.5	1,395.1	(NA)	(NA)	(NA)
1859	140,433	(NA)	(NA)	(NA)	1,311.2	(NA)	378.9	854.3	(NA)	(NA)	(NA)
1849	123,025	(NA)	(NA)	(NA)	957.1	(NA)	236.8	464.0	(NA)	(NA)	(NA)

(NA) Not available.

[1]The figures for 1939 to 1977 include data for employees at manufacturing establishments who were engaged in distribution and in construction work. The extent to which data for such employees were included in the figures for earlier years is not known. In addition to the employment and payroll for operating manufacturing establishments, manufacturing companies reported separately for administrative offices or auxiliary units (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.) that service the manufacturing establishment(s) of a company. These data are included in the total employment, payroll, and establishment figures for the years 1949 to 1977.

[2]The method of compiling these figures varied, as follows: All employees: For 1955 to 1977, figures represent the average of the number of production workers for the payroll period ended nearest the 12th of March, May, August, and November, plus all other employees for the payroll period ended nearest the 12th of March; for 1949 to 1954, they represent an average of all employees for the payroll period ended nearest the 12th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1949 to 1977, figures are based on employment for the payroll period ended nearest the 12th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

[3]For the period 1954 to 1977, value added by manufacture represents adjusted value added, and for earlier years, unadjusted value added. Unadjusted value added is obtained by substracting the cost of materials, supplies and containers, fuel, purchased electric energy, and contract work from the value of shipments for products manufactured plus receipts for services rendered. Adjusted value added also takes into account (a) value added by merchandising operations (that is, the difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) the net change in finished goods for work-in-process inventories between the beginning and end of the year. For 1849 to 1933, cost of contract work was not subtracted from value of shipments in calculating value added by manufacture.

[4]The figures for 1951 to 1977 include expenditures for plants under construction and not yet in operation. This information was not collected prior to 1951.

Footnotes are continued on next page.

Table 1. **Statistics for All Manufacturing Establishments Including Administrative Offices and Auxiliaries: 1977 and Earlier Years**—Con.

[5]Source: Board of Governors, Federal Reserve System.

[6]These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

[7]The 1958 and subsequent years figures include establishments classified in Industry 3273, Ready-Mixed Concrete, and establishments classified in Industry 3599, Machinery, Except Electrical, N.E.C., that were engaged exclusively or almost exclusively in machine shop repair work. The data for such establishments are excluded from the figures for the period 1939 to 1957, but are included for 1929 and earlier years. The 1954 to 1966 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry 202, Dairy Products. These establishments were not included in the figures for earlier census years. In addition, beginning with 1954, the figures include data for Industry 2411, Logging Camps and Logging Contractors, which were not included within the scope of the 1947 census. There were also a number of changes in the definition of manufacturing industries during earlier census years that affect the comparability of the historical series. Among the more important of these were the following: Figures for 1935 and later years exclude data for railroad repair shops and manufactured gas, which were included in 1899 to 1933 figures; the minimum size of establishment included for 1947 to 1966 was one employee; for 1921 to 1939, manufacturing establishments reporting value of shipments of $5,000 or more were within scope; whereas, for 1919 and earlier years, the cutoff was $500. (These changes in procedure have not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

[8]The figures for 1939, but not for earlier years, have been revised on the basis of retabulation of the returns to exclude data for establishments classified as manufacturing in 1939 and prior years but classified as nonmanufacturing beginning with 1947. Value added by manufacture for 1939, prior to revision and on a basis comparable with 1937 and previous year, was $24.7 billion.

[9]The 1939 figures for all employees were revised on the basis of estimates rather than by retabulation of the 1939 reports. The estimates were made in the following manner: For the number of employees, by multiplying the retabulated figure for number of production workers by the ratio of all employees to production workers computed from the unrevised 1939 statistics; for salaries and wages, by multiplying the retabulated wage figure by the ratio for salaries and wages also derived from the unrevised 1939 statistics.

[10]Not including data for salaried officers of corporations and their salaries and, therefore, not strictly comparable with figures for other years.

[11]These figures for 1899 and earlier years represent hand and neighborhood manufacturing operations.

Table 2. **Operating Ratios for All Manufacturing Establishments Including Administrative Offices and Auxiliaries: 1977 and Earlier Years**

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
1977.....	13,477	22,406	70	1,949	5.89	58	77	32	29,871	45	21.93
1976.....	12,445	21,423	70	1,943	5.43	57	77	34	27,274	46	20.17
1975.....	11,448	20,075	69	1,915	5.04	57	78	35	24,177	47	18.38
1974.....	10,497	17,131	70	1,957	4.59	57	78	33	22,802	46	16.60
1973.....	9,716	15,889	72	1,974	4.21	55	77	36	20,383	48	14.44
1972.....	9,155	15,799	71	1,974	3.95	54	77	40	18,603	49	13.26
1971.....	8,506	15,107	70	1,962	3.69	53	76	41	17,107	50	12.43
1970.....	7,966	13,910	70	1,971	3.43	53	78	42	15,623	51	11.26
1969.....	7,625	12,440	72	1,992	3.27	53	77	39	15,195	50	10.64
1968.....	7,263	11,869	72	2,005	3.11	53	77	38	14,598	50	10.12
1967.....	6,842	11,286	72	1,995	2.92	54	77	39	13,558	50	9.41
1966.....	6,589	(NA)	73	2,033	2.78	55	78	(NA)	13,188	50	8.93
1965.....	6,328	(NA)	73	2,032	2.69	55	78	(NA)	12,601	50	8.54
1964.....	6,162	9,726	72	2,035	2.61	54	78	37	11,940	52	8.17
1963.....	5,890	9,294	72	2,004	2.53	55	78	37	11,325	52	7.84
1962.....	5,624	8,890	72	2,001	2.44	55	79	37	10,681	53	7.38
1961.....	5,396	(NA)	72	1,977	2.35	56	80	(NA)	10,059	54	7.05
1960.....	5,255	(NA)	73	1,980	2.30	(NA)	(NA)	(NA)	9,784	54	6.78
1959.....	5,140	(NA)	74	1,992	2.24	(NA)	(NA)	(NA)	9,695	53	6.61
1958.....	4,889	(NA)	73	1,942	2.19	(NA)	(NA)	(NA)	8,832	55	6.24
1957.....	4,639	6,460	75	1,963	2.09	(NA)	(NA)	(NA)	8,643	54	5.86
1956.....	4,486	(NA)	76	1,987	1.99	(NA)	(NA)	(NA)	8,436	53	5.55
1955.....	4,288	(NA)	77	1,999	1.90	(NA)	(NA)	(NA)	8,028	53	5.21
1954.....	4,091	(NA)	77	1,967	1.83	(NA)	(NA)	(NA)	7,258	56	4.81
1953.....	4,013	(NA)	79	2,005	1.81	(NA)	(NA)	(NA)	7,117	56	4.49
1952.....	3,807	(NA)	79	2,016	1.71	(NA)	(NA)	(NA)	6,797	56	4.26
1951.....	3,586	(NA)	80	2,020	1.61	(NA)	(NA)	(NA)	6,539	55	4.04
1950.....	3,243	(NA)	80	2,013	1.46	(NA)	(NA)	(NA)	6,077	53	3.78
1949.....	3,080	(NA)	79	1,976	1.39	(NA)	(NA)	(NA)	5,430	57	3.46
1947.....	2,777	(NA)	83	2,040	1.24	(NA)	(NA)	(NA)	5,197	53	3.06
1939.....	1,334	(NA)	82	(NA)	(NA)	(NA)	(NA)	(NA)	2,570	52	(NA)
1937.....	1,311	(NA)	88	(NA)	(NA)	(NA)	(NA)	(NA)	2,572	51	(NA)
1935.....	1,158	(NA)	87	(NA)	(NA)	(NA)	(NA)	(NA)	2,245	52	(NA)
1933.....	951	(NA)	88	(NA)	(NA)	(NA)	(NA)	(NA)	2,136	45	(NA)
1931.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1929.....	1,479	(NA)	87	(NA)	(NA)	(NA)	(NA)	(NA)	3,167	47	(NA)
1927.....	1,447	(NA)	87	(NA)	(NA)	(NA)	(NA)	(NA)	2,902	50	(NA)
1925.....	1,417	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2,808	50	(NA)
1923.....	1,372	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2,593	53	(NA)
1921.....	1,306	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2,283	57	(NA)
1919.....	1,263	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2,424	52	(NA)
1914.....	668	(NA)	88	(NA)	(NA)	(NA)	(NA)	(NA)	1,249	53	(NA)
1909.....	585	(NA)	89	(NA)	(NA)	(NA)	(NA)	(NA)	1,162	50	(NA)
1904.....	527	(NA)	91	(NA)	(NA)	(NA)	(NA)	(NA)	1,061	50	(NA)
1899.....	466	(NA)	93	(NA)	(NA)	(NA)	(NA)	(NA)	958	49	(NA)
1899.....	474	(NA)	93	(NA)	(NA)	(NA)	(NA)	(NA)	999	47	(NA)
1889.....	482	(NA)	90	(NA)	(NA)	(NA)	(NA)	(NA)	894	54	(NA)
1879.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1869.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1859.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1849.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: For qualifications to data, see footnotes on table 1.

(NA) Not available.

Table 3. **Selected Statistics for Administrative Offices and Auxiliaries by Major Industry Group of Establishments Serviced: 1977**

1977 code	Major industry group and central administrative offices and auxiliaries	Establishments[1] (number)	Employees (1,000)	Total payroll[2] (million dollars)
	Manufacturing, total[1]	9,171	1,074.2	21,981.2
	Central administrative offices	7,309	694.4	14,776.4
	Research, development, and testing	1,838	202.3	4,380.9
	Warehousing	1,647	36.6	438.7
	Electronic data processing	1,739	51.2	908.8
	Other activities	3,029	89.6	1,476.4
20	Food and kindred products	1,341	102.1	1,929.1
	Central administrative offices	1,061	76.8	1,532.2
	Research, development, and testing	215	8.0	134.2
	Warehousing	270	3.9	48.6
	Electronic data processing	261	5.7	115.3
	Other activities	422	7.7	98.8
21	Tobacco manufactures	48	8.0	146.9
	Central administrative offices	36	5.5	107.4
	Research, development, and testing	9	.4	5.4
	Warehousing	14	.3	1.8
	Electronic data processing	11	.5	6.0
	Other activities	9	1.3	26.3
22	Textile mill products	375	33.2	553.0
	Central administrative offices	309	22.2	389.2
	Research, development, and testing	68	2.5	39.6
	Warehousing	82	2.3	24.5
	Electronic data processing	75	1.8	25.6
	Other activities	121	4.4	74.1
23	Apparel and other textile products	424	27.5	403.6
	Central administrative offices	353	18.6	296.9
	Research, development, and testing	38	.8	13.1
	Warehousing	113	4.3	39.3
	Electronic data processing	76	1.4	14.8
	Other activities	119	2.4	39.5
24	Lumber and wood products	320	14.5	270.2
	Central administrative offices	265	10.6	204.6
	Research, development, and testing	34	1.0	20.0
	Warehousing	56	.3	3.3
	Electronic data processing	57	.8	12.7
	Other activities	115	1.7	29.6
25	Furniture and fixtures	124	9.0	140.1
	Central administrative offices	110	6.8	107.1
	Research, development, and testing	16	.4	7.1
	Warehousing	31	.7	7.1
	Electronic data processing	31	.5	5.9
	Other activities	32	.5	12.9
26	Paper and allied products	251	37.6	902.4
	Central administrative offices	219	31.7	802.0
	Research, development, and testing	65	3.0	57.9
	Warehousing	15	.1	1.3
	Electronic data processing	61	1.6	20.6
	Other activities	59	1.2	20.6
27	Printing and publishing	644	38.9	621.4
	Central administrative offices	490	23.5	405.9
	Research, development, and testing	26	1.0	18.2
	Warehousing	66	4.1	38.5
	Electronic data processing	57	1.8	23.5
	Other activities	343	8.5	135.3
28	Chemicals and allied products	1,170	181.4	3,798.9
	Central administrative offices	857	114.1	2,470.3
	Research, development, and testing	360	46.3	953.3
	Warehousing	242	2.5	30.6
	Electronic data processing	212	7.1	120.6
	Other activities	279	11.4	224.1
29	Petroleum and coal products	287	65.3	1,562.0
	Central administrative offices	233	47.0	1,150.3
	Research, development, and testing	57	12.1	301.9
	Warehousing	30	.3	4.5
	Electronic data processing	47	4.1	68.7
	Other activities	82	1.8	36.6
30	Rubber and miscellaneous plastics products	215	25.2	458.3
	Central administrative offices	180	19.1	343.2
	Research, development, and testing	52	2.8	72.2
	Warehousing	54	.9	10.5
	Electronic data processing	44	1.0	12.2
	Other activities	69	1.4	20.2
31	Leather and leather products	103	10.8	132.3
	Central administrative offices	87	6.9	89.5
	Research, development, and testing	7	(Z)	.5
	Warehousing	40	3.1	28.9
	Electronic data processing	26	.4	5.4
	Other activities	57	.4	8.0
32	Stone, clay, and glass products	600	41.1	797.2
	Central administrative offices	511	29.9	581.0
	Research, development, and testing	107	5.0	89.0
	Warehousing	75	.4	4.7
	Electronic data processing	132	2.0	24.3
	Other activities	333	3.8	98.2
33	Primary metal industries	484	46.8	1,031.0
	Central administrative offices	346	35.1	806.9
	Research, development, and testing	95	7.3	140.0
	Warehousing	60	.5	5.0
	Electronic data processing	82	2.0	50.4
	Other activities	172	1.9	28.7
34	Fabricated metal products	549	50.1	986.5
	Central administrative offices	477	36.7	744.3
	Research, development, and testing	110	6.7	120.6
	Warehousing	73	.9	10.9
	Electronic data processing	113	2.3	42.4
	Other activities	168	3.6	68.3
35	Machinery, except electrical	754	93.1	1,884.8
	Central administrative offices	592	61.4	1,330.0
	Research, development, and testing	178	15.2	248.5
	Warehousing	146	3.7	57.4
	Electronic data processing	140	4.9	93.3
	Other activities	300	7.9	155.6
36	Electric and electronic equipment	694	140.0	2,840.9
	Central administrative offices	553	69.8	1,535.1
	Research, development, and testing	185	37.1	775.8
	Warehousing	153	4.9	68.5
	Electronic data processing	153	8.0	158.2
	Other activities	168	20.2	303.3
37	Transportation equipment	403	105.5	2,640.9
	Central administrative offices	307	50.5	1,312.5
	Research, development, and testing	108	42.8	1,159.1
	Warehousing	51	2.2	38.1
	Electronic data processing	80	3.0	65.7
	Other activities	88	7.0	65.5
38	Instruments and related products	228	32.8	691.6
	Central administrative offices	195	19.7	420.7
	Research, development, and testing	78	9.2	208.0
	Warehousing	38	.6	7.8
	Electronic data processing	44	1.7	33.7
	Other activities	43	1.5	21.4
39	Miscellaneous manufacturing industries	157	11.2	190.1
	Central administrative offices	128	8.4	147.3
	Research, development, and testing	30	.7	16.5
	Warehousing	38	.6	7.4
	Electronic data processing	37	.7	9.5
	Other activities	50	.8	9.4

(Z) Less than 50 employees.

[1]Detailed establishment data exceed totals since some establishments participate in more than one activity.

[2]Total payroll data for each industry group are actual. Detail data are estimates based on reported employment and average annual salaries determined from data collected in the 1977 Enterprise Statistics series.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972

Code	Industry group and industry	1977									
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
	ALL INDUSTRIES, TOTAL.	300 393	359 928	118 699	19 590.1	264 013.1	13 691.0	26 686.7	157 163.7	585 165.6	1 358 526.4
20	FOOD AND KINDRED PRODUCTS. . . .	20 616	26 656	11 038	1 520.0	18 543.6	1 072.0	2 112.4	11 730.7	56 062.2	192 911.6
201	MEAT PRODUCTS.	3 967	4 534	1 715	309.1	3 701.5	254.0	499.8	2 817.0	7 478.0	46 276.3
2011	MEATPACKING PLANTS	2 403	2 590	737	146.2	2 110.6	116.5	237.2	1 625.9	4 010.1	31 208.2
2013	SAUSAGES AND OTHER PREPARED MEATS. .	1 213	1 345	570	65.0	891.9	50.1	100.4	626.6	2 039.0	8 465.4
2016	POULTRY DRESSING PLANTS.	313	446	313	86.8	612.3	77.7	143.6	496.3	1 236.9	5 746.1
2017	POULTRY AND EGG PROCESSING	124	153	95	11.1	86.8	9.8	18.6	68.1	192.0	856.6
202	DAIRY PRODUCTS	2 837	3 731	1 617	153.9	1 938.9	85.0	175.6	987.6	5 646.3	26 009.8
2021	CREAMERY BUTTER.	123	138	39	2.3	26.3	1.7	3.6	18.1	74.6	900.5
2022	CHEESE, NATURAL AND PROCESSED. . . .	660	791	293	26.7	287.0	22.2	44.0	223.4	948.8	6 126.0
2023	CONDENSED AND EVAPORATED MILK. . . .	167	266	148	12.3	163.2	9.0	18.9	110.7	805.2	3 188.5
2024	ICE CREAM AND FROZEN DESSERTS. . . .	507	612	229	19.1	247.0	11.4	22.7	130.1	643.7	2 008.6
2026	FLUID MILK	1 516	1 924	908	93.5	1 215.4	40.8	86.3	505.4	3 175.9	13 786.2
203	PRESERVED FRUITS AND VEGETABLES. .	1 752	2 379	1 263	234.7	2 336.0	198.7	377.2	1 792.8	7 684.5	20 332.8
2032	CANNED SPECIALTIES	172	203	88	26.4	296.5	21.5	42.4	224.3	[2]1 142.6	[2]2 829.2
2033	CANNED FRUITS AND VEGETABLES	648	900	519	82.6	789.8	72.6	135.0	636.6	[2]2 542.4	[2]6 662.8
2034	DEHYD. FRUITS, VEGETABLES, SOUPS . .	143	184	87	14.4	153.9	11.7	22.1	111.5	472.6	1 142.4
2035	PICKLES, SAUCES, SALAD DRESSINGS . .	380	438	168	23.5	250.2	18.9	35.7	184.9	[2]986.5	[2]2 996.5
2037	FROZEN FRUITS AND VEGETABLES	187	260	193	46.8	425.9	41.5	78.5	344.7	[2]1 322.5	[2]3 297.5
2038	FROZEN SPECIALTIES	330	394	208	41.0	419.8	32.5	63.4	290.9	[2]1 217.7	[2]3 404.4
204	GRAIN MILL PRODUCTS.	2 094	3 043	1 076	112.8	1 575.6	79.3	165.5	1 034.2	6 625.6	22 344.2
2041	FLOUR, OTHER GRAIN MILL PRODUCTS . .	301	407	173	15.6	222.3	11.3	24.6	153.4	824.5	3 683.3
2043	CEREAL BREAKFAST FOODS	32	48	35	16.4	287.4	13.8	28.8	230.0	1 447.0	2 497.5
2044	RICE MILLING	47	59	39	4.8	61.4	4.0	8.4	40.7	341.0	1 263.4
2045	BLENDED AND PREPARED FLOUR	111	137	60	8.4	104.5	5.8	12.1	68.0	408.7	1 011.7
2046	WET CORN MILLING	24	39	27	10.9	191.1	7.8	15.7	132.2	666.7	2 014.8
2047	DOG, CAT, AND OTHER PET FOOD	218	290	132	17.7	245.5	13.4	27.7	170.3	1 392.9	3 086.7
2048	PREPARED FEEDS, NEC.	1 435	2 063	610	39.1	463.4	23.2	48.2	239.6	1 544.7	8 786.8
205	BAKERY PRODUCTS.	2 797	3 386	1 289	221.7	2 866.1	131.4	258.7	1 525.0	7 073.2	[3]12 235.3
2051	BREAD, CAKE, AND RELATED PRODUCTS. .	2 549	3 062	1 117	178.0	2 335.8	97.4	191.7	1 152.8	5 377.2	9 274.9
2052	COOKIES AND CRACKERS	263	324	172	43.8	530.2	34.0	67.0	372.2	1 695.9	2 960.5
206	SUGAR, CONFECTIONERY PRODUCTS. . .	990	1 198	518	105.4	1 206.2	83.7	164.8	868.3	4 150.9	10 839.8
2061	RAW CANE SUGAR	49	65	55	8.0	95.8	6.3	13.6	70.8	275.7	704.0
2062	CANE SUGAR REFINING.	27	40	27	10.2	168.9	7.2	15.4	116.4	526.2	2 260.0
2063	BEET SUGAR	14	57	52	11.4	143.3	9.9	21.3	119.0	344.9	1 181.7
2065	CONFECTIONERY PRODUCTS	867	962	343	58.0	584.2	47.0	89.1	415.5	2 028.0	4 498.4
2066	CHOCOLATE AND COCOA PRODUCTS	47	56	27	10.0	130.2	7.2	13.9	84.0	640.6	1 629.2
2067	CHEWING GUM.	14	18	14	7.7	83.9	6.0	11.6	62.7	335.5	566.5
207	FATS AND OILS.	591	869	458	41.1	561.4	29.6	64.3	365.4	1 905.2	14 480.0
2074	COTTONSEED OIL MILLS	62	97	71	5.2	51.5	4.1	9.3	35.9	197.4	859.2
2075	SOYBEAN OIL MILLS.	65	121	87	9.4	130.7	6.6	14.7	87.8	373.8	7 580.0
2076	VEGETABLE OIL MILLS, NEC	37	42	19	1.5	17.6	1.1	2.5	12.2	58.4	360.8
2077	ANIMAL AND MARINE FATS AND OILS. . .	384	500	201	12.4	171.2	8.7	19.2	103.8	583.8	1 655.0
2079	SHORTENING AND COOKING OILS.	66	109	80	12.7	190.5	9.0	18.7	125.8	691.8	4 025.0
208	BEVERAGES.	2 440	3 104	1 689	195.1	2 848.9	99.5	200.1	1 368.7	9 900.9	23 329.0
2082	MALT BEVERAGES	81	131	91	44.0	857.5	31.1	61.1	589.1	2 602.3	6 652.6
2083	MALT	27	40	27	1.6	27.4	1.2	2.5	20.0	101.4	499.3
2084	WINES, BRANDY, AND BRANDY SPIRITS. .	233	269	76	9.2	134.1	5.4	10.5	69.6	510.4	1 362.5
2085	DISTILLED LIQUOR, EXCEPT BRANDY. . .	64	104	77	15.7	232.1	12.0	23.8	168.1	[2]1 149.7	[2]2 296.1
2086	BOTTLED AND CANNED SOFT DRINKS . . .	1 758	2 192	1 286	114.1	1 448.8	43.4	89.3	444.8	4 084.5	10 007.2
2087	FLAVORING EXTRACTS, SIRUPS, NEC. . .	319	368	132	10.5	149.1	6.3	12.9	77.1	1 452.6	2 511.3
209	MISC. FOODS, KINDRED PRODUCTS. . .	3 794	4 412	1 413	146.2	1 508.8	110.8	206.4	971.6	5 595.7	17 064.3
2091	CANNED AND CURED SEAFOODS.	215	255	118	16.0	147.0	13.8	25.0	113.4	441.0	1 440.6
2092	FRESH OR FROZEN PACKAGED FISH. . . .	906	990	406	34.3	260.8	29.6	49.7	188.9	705.5	2 664.9
2095	ROASTED COFFEE	133	167	89	10.9	164.8	7.2	15.0	103.2	988.0	5 616.4
2097	MANUFACTURED ICE	543	678	63	5.3	47.8	3.5	6.7	25.5	106.1	149.4
2098	MACARONI AND SPAGHETTI	189	205	68	8.2	96.0	5.7	12.3	56.5	327.0	662.0
2099	FOOD PREPARATIONS, NEC	1 872	2 117	669	71.5	792.6	50.9	97.7	484.1	3 028.1	6 531.0
21	TOBACCO PRODUCTS	155	228	123	60.6	750.7	50.4	92.6	570.7	4 334.1	9 050.6
2111	CIGARETTES	8	14	13	39.0	567.7	32.5	58.9	442.0	3 803.1	6 377.4
2121	CIGARS	94	101	34	7.7	54.9	7.0	12.7	44.0	125.6	242.7
2131	CHEWING AND SMOKING TOBACCO. . . .	28	35	19	3.2	32.1	2.5	4.4	22.0	188.9	354.3
2141	TOBACCO STEMMING AND REDRYING. . . .	38	78	57	10.7	96.1	8.4	16.6	62.6	216.5	2 076.2
22	TEXTILE MILL PRODUCTS.	5 733	7 202	4 131	875.7	7 881.4	764.6	1 523.1	6 202.8	16 104.5	40 550.5
2211	WEAVING MILLS, COTTON.	211	314	192	117.2	1 046.8	107.2	214.3	902.0	1 944.5	4 431.2
2221	WEAV'G MILLS, MANMADE FIBER, SILK. .	267	449	351	151.0	1 428.7	134.6	275.4	1 168.7	2 790.9	6 325.9
2231	WEAVING AND FINISHING MILLS, WOOL. .	153	165	84	14.6	136.6	12.6	25.9	105.8	312.9	583.3
2241	NARROW FABRIC MILLS.	291	335	182	20.8	171.6	18.1	35.7	130.9	350.8	682.9
225	KNITTING MILLS	2 318	2 617	1 511	235.9	1 911.0	205.9	389.4	1 469.9	3 863.0	9 470.0
2251	WOMEN'S HOSIERY, EXCEPT SOCKS. . . .	176	200	119	26.6	191.3	23.8	44.1	156.6	457.0	871.2
2252	HOSIERY, NEC	382	415	257	32.2	218.7	29.0	52.6	179.4	401.5	921.3
2253	KNIT OUTERWEAR MILLS	903	953	551	73.0	582.0	62.7	114.0	422.0	1 159.5	2 335.9
2254	KNIT UNDERWEAR MILLS	80	92	74	25.2	175.2	23.4	42.7	151.8	305.7	648.9
2257	CIRCULAR KNIT FABRIC MILLS	462	530	310	51.8	493.0	44.0	88.2	371.2	1 033.5	3 169.4
2258	WARP KNIT FABRIC MILLS	213	235	153	23.7	226.7	20.0	41.9	169.8	464.8	1 427.6
2259	KNITTING MILLS, NEC.	191	192	47	3.4	24.1	3.1	6.0	19.0	40.9	95.7
226	TEXTILE FINISHING, EXCEPT WOOL . .	602	678	395	72.1	740.0	59.8	123.5	554.0	1 416.7	3 994.3
2261	FINISHING PLANTS, COTTON	194	210	94	20.8	211.4	17.3	35.7	162.2	350.7	759.5
2262	FINISH. PLTS, MANMADE FIBER, SILK. .	248	285	189	37.2	396.2	30.4	63.7	293.4	792.0	2 404.3
2269	FINISHING PLANTS, NEC.	176	183	112	14.1	132.3	12.1	24.1	98.4	274.0	830.6

See footnotes at end of table.

Table 4. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977--Continued							1972				
		New capital expenditures[4]			Inventories		Ratios		All employees				
		Total (million dollars)	Structures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
	ALL INDUSTRIES, TOTAL. . . .	47 459.0	8 499.5	38 959.5	188 436.4	174 865.0	(NA)	(NA)	19 028.7	174 205.5	353 994.0	756 534.3	24 077.7
20	FOOD AND KINDRED PRODUCTS. . . .	4 214.9	908.5	3 306.4	16 984.9	16 416.3	(NA)	(NA)	1 569.3	12 920.2	35 614.8	115 051.5	2 355.0
201	MEAT PRODUCTS.	532.7	144.7	387.9	1 379.7	1 273.1	(NA)	(NA)	307.7	2 543.6	4 960.9	31 477.9	299.6
2011	MEATPACKING PLANTS	236.7	63.6	173.1	700.1	651.2	98	84	157.5	1 532.1	2 968.1	23 003.4	167.7
2013	SAUSAGES AND OTHER PREPARED MEATS. .	151.6	40.4	111.2	406.4	375.1	97	60	58.1	542.2	1 099.9	4 632.4	74.0
2016	POULTRY DRESSING PLANTS.	126.1	36.6	89.5	206.8	188.3	99	92	77.6	391.8	724.4	3 254.1	45.5
2017	POULTRY AND EGG PROCESSING	18.3	4.2	14.1	66.3	58.6	99	73	14.6	77.5	168.5	588.1	12.4
202	DAIRY PRODUCTS	389.0	89.3	299.7	1 180.2	1 096.9	(NA)	(NA)	188.7	1 596.4	4 054.1	16 311.5	274.7
2021	CREAMERY BUTTER.	8.3	1.9	6.4	24.2	25.4	80	61	4.0	31.0	82.3	808.3	7.8
2022	CHEESE, NATURAL AND PROCESSED. . . .	57.2	12.9	44.3	550.4	528.3	91	93	25.2	186.3	492.3	3 195.0	49.9
2023	CONDENSED AND EVAPORATED MILK. . . .	56.2	12.1	44.2	175.0	164.4	79	76	12.3	108.3	467.3	1 667.8	32.1
2024	ICE CREAM AND FROZEN DESSERTS. . . .	56.8	20.3	36.4	126.6	116.9	94	75	21.1	184.7	459.8	1 244.7	35.8
2026	FLUID MILK	210.5	42.0	168.5	304.0	261.8	88	94	126.1	1 086.1	2 552.4	9 395.7	149.2
203	PRESERVED FRUITS AND VEGETABLES. .	470.5	104.8	365.7	4 537.7	4 193.5	(NA)	(NA)	233.1	1 533.5	4 514.4	11 478.6	358.4
2032	CANNED SPECIALTIES	46.7	11.2	35.5	527.8	508.4	80	89	29.1	217.8	814.6	1 876.6	44.1
2033	CANNED FRUITS AND VEGETABLES	147.1	33.3	113.8	2 233.5	2 062.1	90	89	89.8	559.9	1 625.1	4 043.8	113.1
2034	DEHYD. FRUITS, VEGETABLES, SOUPS . .	52.5	15.6	36.9	281.9	267.0	94	88	12.4	84.3	235.7	607.3	18.9
2035	PICKLES, SAUCES, SALAD DRESSINGS . .	52.3	11.7	40.6	447.8	426.7	69	86	20.8	146.2	428.0	1 166.7	43.4
2037	FROZEN FRUITS AND VEGETABLES	87.7	14.1	73.6	724.4	640.3	89	89	42.8	261.2	694.6	1 848.8	57.8
2038	FROZEN SPECIALTIES	84.1	18.9	65.2	322.2	288.9	93	93	38.3	264.1	716.3	1 935.5	81.0
204	GRAIN MILL PRODUCTS.	620.0	126.2	493.8	1 714.5	1 674.5	(NA)	(NA)	111.4	1 012.8	3 698.7	12 162.2	266.6
2041	FLOUR, OTHER GRAIN MILL PRODUCTS . .	52.4	15.2	37.2	263.2	297.8	98	71	16.1	152.8	509.8	2 380.0	30.0
2043	CEREAL BREAKFAST FOODS	79.8	10.8	69.0	152.1	150.3	74	93	12.9	140.9	688.4	1 125.5	24.9
2044	RICE MILLING	40.0	11.5	28.5	411.4	329.4	100	96	4.0	30.9	148.3	680.6	6.3
2045	BLENDED AND PREPARED FLOUR	17.6	5.8	11.8	80.6	72.3	94	75	7.9	74.9	306.8	704.6	13.7
2046	WET CORN MILLING	232.2	34.2	198.0	158.4	169.8	94	93	12.1	137.7	331.2	832.3	59.7
2047	DOG, CAT, AND OTHER PET FOOD	67.2	13.4	53.7	200.7	193.8	92	88	14.3	135.1	613.8	1 401.9	61.1
2048	PREPARED FEEDS, NEC.	130.9	35.3	95.6	448.2	461.0	96	95	44.0	340.5	1 100.5	5 037.1	70.8
205	BAKERY PRODUCTS.	365.4	78.4	287.1	407.1	382.5	(NA)	(NA)	234.6	2 029.0	4 537.0	7 895.5	207.3
2051	BREAD, CAKE, AND RELATED PRODUCTS. .	279.9	52.2	227.6	235.1	220.6	99	98	193.5	1 692.2	3 518.1	6 132.0	170.6
2052	COOKIES AND CRACKERS	85.6	26.1	59.4	172.0	161.9	94	94	41.1	336.9	1 018.9	1 763.5	36.7
206	SUGAR, CONFECTIONERY PRODUCTS. . .	313.0	60.3	252.6	1 661.8	1 551.8	(NA)	(NA)	107.1	831.5	2 472.9	6 620.1	186.2
2061	RAW CANE SUGAR	43.4	4.0	39.3	107.9	97.3	100	99	7.1	60.7	151.7	406.5	28.8
2062	CANE SUGAR REFINING.	53.4	10.8	42.7	345.1	275.9	99	100	10.9	119.5	383.9	1 742.7	23.6
2063	BEET SUGAR	43.5	4.6	38.9	467.1	469.2	99	99	11.5	92.3	310.5	880.2	34.9
2065	CONFECTIONERY PRODUCTS	115.5	25.9	89.5	450.2	442.6	95	94	60.7	422.2	1 115.7	2 472.5	53.4
2066	CHOCOLATE AND COCOA PRODUCTS	35.0	11.2	23.8	175.1	139.2	94	94	10.0	83.3	282.6	735.5	26.5
2067	CHEWING GUM.	22.1	3.7	18.4	116.4	127.6	92	77	6.9	53.6	228.4	382.6	19.0
207	FATS AND OILS.	208.1	37.3	170.9	1 484.2	1 972.7	(NA)	(NA)	40.3	366.4	1 290.5	6 908.8	121.4
2074	COTTONSEED OIL MILLS	13.0	2.9	10.0	195.4	249.6	88	89	5.5	34.2	88.2	458.7	9.9
2075	SOYBEAN OIL MILLS.	72.3	14.1	58.2	804.9	1 205.9	87	98	9.1	82.4	350.0	3 357.2	41.9
2076	VEGETABLE OIL MILLS, NEC	7.4	2.1	5.3	89.3	83.1	86	58	1.2	11.6	44.8	261.0	3.1
2077	ANIMAL AND MARINE FATS AND OILS. . .	53.3	8.9	44.3	70.2	54.0	94	68	11.6	106.0	296.7	764.7	31.0
2079	SHORTENING AND COOKING OILS. . . .	62.1	9.2	53.0	324.3	380.1	89	77	12.9	133.7	512.6	2 068.1	35.5
208	BEVERAGES.	993.9	197.0	796.8	2 940.0	2 759.8	(NA)	(NA)	212.3	2 032.7	6 689.0	13 869.4	468.2
2082	MALT BEVERAGES	410.3	74.8	335.5	444.6	406.5	100	100	51.5	652.8	1 993.6	4 054.4	155.6
2083	MALT	39.6	19.5	20.1	134.2	183.0	100	100	1.7	20.0	55.0	226.3	7.9
2084	WINES, BRANDY, AND BRANDY SPIRITS. .	51.1	13.6	37.6	559.5	513.5	98	97	9.4	91.5	407.9	865.0	43.7
2085	DISTILLED LIQUOR, EXCEPT BRANDY. . .	36.3	9.8	26.5	1 027.9	996.6	98	98	18.4	183.1	1 024.0	1 797.9	32.8
2086	BOTTLED AND CANNED SOFT DRINKS . . .	423.6	72.5	351.0	551.7	467.2	98	97	121.1	984.4	2 336.7	5 453.8	207.1
2087	FLAVORING EXTRACTS, SIRUPS, NEC. . .	33.1	6.9	26.2	222.1	193.1	92	86	10.1	100.9	871.9	1 472.0	21.1
209	MISC. FOODS, KINDRED PRODUCTS. . .	322.4	70.5	251.9	1 679.9	1 511.5	(NA)	(NA)	134.2	974.2	3 397.3	8 335.5	172.5
2091	CANNED AND CURED SEAFOODS.	28.1	8.9	19.2	311.1	256.6	81	96	16.0	99.0	231.4	809.8	15.5
2092	FRESH OR FROZEN PACKAGED FISH. . . .	56.8	19.0	37.8	376.7	313.3	97	97	25.0	129.6	287.5	1 084.4	17.8
2095	ROASTED COFFEE	41.9	1.4	40.4	405.3	383.9	96	98	12.9	131.5	825.8	2 328.7	31.5
2097	MANUFACTURED ICE	16.9	5.2	11.6	4.4	3.3	99	99	6.8	42.6	91.7	116.4	8.9
2098	MACARONI AND SPAGHETTI	12.6	3.3	9.2	48.4	45.1	99	83	7.3	59.4	155.7	348.3	7.1
2099	FOOD PREPARATIONS, NEC	166.2	32.6	133.6	534.1	509.4	89	83	66.2	512.1	1 805.2	3 647.9	91.8
21	TOBACCO PRODUCTS	181.5	56.7	124.7	3 711.9	3 615.2	(NA)	(NA)	66.3	502.1	2 637.2	5 920.2	133.2
2111	CIGARETTES	118.0	41.2	76.8	2 652.2	2 564.7	97	99	38.1	344.8	2 188.4	3 744.6	101.5
2121	CIGARS	3.3	.3	3.0	57.8	54.9	(D)	92	13.5	68.2	191.9	338.7	5.4
2131	CHEWING AND SMOKING TOBACCO. . . .	7.3	1.9	5.4	99.8	94.7	97	75	3.3	23.0	103.2	180.2	12.1
2141	TOBACCO STEMMING AND REDRYING. . . .	52.8	13.3	39.6	902.2	900.9	(D)	94	11.4	66.0	153.6	1 656.8	14.1
22	TEXTILE MILL PRODUCTS.	1 223.5	198.9	1 024.5	5 509.9	5 103.5	(NA)	(NA)	952.6	6 051.0	11 715.8	28 063.9	1 127.4
2211	WEAVING MILLS, COTTON.	187.2	32.8	154.4	657.8	553.9	84	66	121.3	745.2	1 256.3	2 660.6	72.7
2221	WEAVING MILLS, MANMADE FIBER, SILK. .	260.2	23.3	236.9	871.0	834.8	86	74	149.7	979.4	1 831.6	3 856.6	136.2
2231	WEAVING AND FINISHING MILLS, WOOL. .	14.9	4.0	11.0	111.0	96.2	83	80	19.4	132.1	239.4	450.1	11.6
2241	NARROW FABRIC MILLS.	16.2	4.0	12.1	109.3	106.1	96	97	27.1	162.3	289.0	566.2	11.2
225	KNITTING MILLS	245.2	48.8	196.4	1 315.4	1 218.8	(NA)	(NA)	276.5	1 647.0	3 180.7	7 703.3	401.6
2251	WOMEN'S HOSIERY, EXCEPT SOCKS. . . .	16.6	3.9	12.6	122.9	119.8	91	95	49.5	247.4	438.8	984.7	15.9
2252	HOSIERY, NEC	14.8	3.6	11.3	127.3	118.8	96	96	32.6	159.7	295.2	600.6	12.5
2253	KNIT OUTERWEAR MILLS	49.9	5.3	44.6	393.4	342.5	90	53	74.4	430.4	799.5	1 703.8	45.9
2254	KNIT UNDERWEAR MILLS	14.5	4.2	10.2	131.3	116.8	80	86	26.0	134.6	251.5	544.6	7.0
2257	CIRCULAR KNIT FABRIC MILLS	91.6	11.5	80.0	316.2	307.2	90	88	68.1	492.6	1 036.0	2 808.8	270.1
2258	WARP KNIT FABRIC MILLS	56.3	20.1	36.2	209.0	198.8	93	83	22.0	159.2	317.8	987.7	48.2
2259	KNITTING MILLS, NEC.	1.5	.2	1.4	15.2	14.8	97	81	3.9	23.1	41.8	73.1	2.0
226	TEXTILE FINISHING, EXCEPT WOOL . .	125.2	20.6	104.6	434.6	396.7	(NA)	(NA)	79.5	564.0	1 113.9	2 625.8	115.5
2261	FINISHING PLANTS, COTTON	24.8	3.1	21.6	80.1	68.2	83	39	25.7	177.2	322.0	623.3	31.5
2262	FINISH. PLTS, MANMADE FIBER, SILK. .	75.9	12.2	63.6	266.5	258.4	80	57	35.2	263.2	521.5	1 365.2	48.8
2269	FINISHING PLANTS, NEC.	24.6	5.3	19.4	88.0	70.1	95	43	18.5	123.5	270.4	637.3	35.2

See footnotes at end of table.

Table 4. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977									
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollsrs)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
227	FLOOR COVERING MILLS	533	592	285	55.8	556.7	44.3	91.4	379.7	1 530.1	4 774.5
2271	WOVEN CARPETS AND RUGS	71	71	16	2.8	24.8	2.5	4.7	20.0	47.1	138.7
2272	TUFTED CARPETS AND RUGS	397	449	251	50.2	506.5	39.4	82.2	341.1	1 438.2	4 52D.7
2279	CARPETS AND RUGS, NEC	72	72	18	2.8	25.3	2.4	4.5	18.6	44.8	115.2
228	YARN AND THREAD MILLS	529	798	608	140.5	1 184.4	127.3	258.2	994.3	2 254.5	6 114.4
2281	YARN MILLS, EXCEPT WOOL	274	456	370	93.0	782.7	85.6	175.2	675.5	1 480.3	3 864.9
2282	THROWING AND WINDING MILLS	170	196	148	30.5	262.3	27.1	54.5	210.4	490.4	1 510.1
2283	WOOL YARN MILLS	71	76	43	4.1	33.1	3.7	7.3	27.3	81.8	194.9
2284	THREAD MILLS	58	70	47	12.8	106.3	1D.9	21.1	81.1	2D1.9	544.4
229	MISCELLANEOUS TEXTILE GOODS	1 150	1 254	523	67.9	705.6	54.8	109.2	497.5	1 641.1	4 173.9
2291	FELT GOODS, EXC. WOVEN FELT, HATS	37	46	27	4.3	50.7	3.3	6.7	33.1	103.D	197.7
2292	LACE GOODS	68	71	24	2.2	17.9	1.9	3.6	14.0	27.7	45.9
2293	PADDINGS AND UPHOLSTERY FILLING	113	12D	56	5.2	52.9	4.1	8.4	36.4	124.5	251.8
2294	PROCESSED TEXTILE WASTE	95	99	39	3.7	31.2	3.1	6.3	23.1	61.7	178.4
2295	COATED FABRICS, NOT RUBBERIZED	175	191	109	13.6	182.3	9.9	20.9	117.1	413.1	1 059.0
2296	TIRE CORD AND FABRIC	8	20	20	9.6	94.7	8.5	16.2	78.1	242.1	1 013.2
2297	NONWOVEN FABRICS	81	100	74	13.0	139.8	10.4	21.1	100.2	386.0	864.4
2298	CORDAGE AND TWINE	151	171	84	9.5	79.5	7.9	14.2	53.7	173.8	332.2
2299	TEXTILE GOODS, NEC	432	436	90	6.7	56.6	5.7	11.8	41.8	109.2	231.1
23	APPAREL, OTHER TEXTILE PRODS	23 754	26 505	11 932	1 334.3	9 658.6	1 156.6	2 037.6	7 252.6	19 671.3	40 245.1
2311	MEN'S AND BOYS' SUITS AND COATS	619	737	467	98.7	822.2	86.2	152.9	645.4	1 574.4	2 767.5
232	MEN'S AND BOYS' FURNISHINGS	2 121	3 013	2 129	364.5	2 34D.1	323.4	575.3	1 863.5	4 935.2	1D 003.2
2321	MEN'S, BOYS' SHIRTS, NIGHTWEAR	669	928	679	114.7	711.3	1D3.0	184.1	569.9	1 445.7	2 934.6
2322	MEN'S AND BOYS' UNDERWEAR	56	76	59	15.1	92.2	13.7	23.8	79.0	218.2	419.8
2323	MEN'S AND BOYS' NECKWEAR	198	207	81	6.3	57.5	5.1	8.7	33.4	117.5	223.8
2327	MEN'S AND BOYS' SEPARATE TROUSERS	404	514	335	70.9	474.0	61.9	107.6	372.0	845.6	1 718.0
2328	MEN'S AND BOYS' WORK CLOTHING	347	656	575	113.7	719.4	1D1.6	183.7	589.9	1 765.4	3 641.9
2329	MEN'S AND BOYS' CLOTHING, NEC	553	632	400	43.8	285.8	38.1	67.4	219.3	542.8	1 065.1
233	WOMEN'S AND MISSES' OUTERWEAR	11 121	11 834	5 556	447.5	3 152.8	387.3	66D.9	2 3D4.2	6 429.8	12 720.3
2331	WOMEN'S, MISSES' BLOUSES, WAISTS	1 292	1 415	952	83.3	569.0	73.8	125.D	424.3	1 192.5	2 333.6
2335	WOMEN'S AND MISSES' DRESSES	6 753	6 953	2 473	175.3	1 197.1	153.D	261.D	882.5	2 233.7	4 188.6
2337	WOMEN'S, MISSES' SUITS AND COATS	1 558	1 672	1 067	84.7	654.0	72.7	123.3	468.5	1 429.6	2 912.9
2339	WOMEN'S, MISSES' OUTERWEAR, NEC	1 625	1 794	1 064	104.1	732.7	87.9	151.5	528.9	1 574.0	3 285.1
234	WOMEN'S, CHILDREN'S UNDERGARMS	693	878	595	91.8	613.2	78.6	139.6	448.9	1 249.7	2 430.8
2341	WOMEN'S AND CHILDREN'S UNDERWEAR	548	698	479	72.9	472.1	63.4	112.6	359.8	915.3	1 78D.8
2342	BRASSIERES AND ALLIED GARMENTS	150	18D	116	18.9	141.1	15.2	27.D	89.1	334.4	650.0
235	HATS, CAPS, AND MILLINERY	381	409	169	15.1	1D5.2	13.3	23.8	79.1	185.5	359.9
2351	MILLINERY	151	151	47	2.7	20.2	2.2	3.7	13.7	32.8	75.1
2352	HATS AND CAPS, EXCEPT MILLINERY	230	258	122	12.4	85.1	11.1	2D.1	65.3	152.7	284.8
236	CHILDREN'S OUTERWEAR	844	1 002	686	71.2	459.1	61.2	107.6	348.9	879.2	1 717.3
2361	CHILDREN'S DRESSES AND BLOUSES	455	519	374	35.2	228.4	3D.4	52.5	169.7	444.6	824.7
2363	CHILDREN'S COATS AND SUITS	108	12D	7D	6.7	45.8	5.7	9.7	35.1	90.2	173.8
2369	CHILDREN'S OUTERWEAR, NEC	307	363	242	29.3	184.9	25.1	45.4	144.1	344.4	718.8
2371	FUR GOODS	620	62D	48	4.0	51.5	3.2	5.1	36.2	112.8	383.4
238	MISC. APPAREL AND ACCESSORIES	1 207	1 284	593	56.3	4D7.5	47.9	84.8	288.2	845.3	1 649.5
2381	FABRIC DRESS AND WORK GLOVES	100	132	92	10.9	69.D	9.9	18.0	56.3	160.9	312.4
2384	ROBES AND DRESSING GOWNS	137	151	98	9.5	64.3	8.2	14.7	47.8	139.5	288.3
2385	WATERPROOF OUTERGARMENTS	157	167	105	12.0	89.4	1D.1	17.9	61.6	194.4	348.8
2386	LEATHER AND SHEEP LINED CLOTHING	236	239	8D	6.7	54.7	5.9	10.4	41.1	94.8	214.1
2387	APPAREL BELTS	281	284	119	9.4	76.1	7.3	12.6	44.6	150.3	286.9
2389	APPAREL AND ACCESSORIES, NEC	304	311	99	7.8	54.0	6.5	11.2	36.9	1D5.4	199.0
239	MISC. FABRICATED TEXTILE PRODS	6 444	6 728	1 689	185.2	1 706.9	155.5	287.6	1 238.3	3 459.4	8 213.2
2391	CURTAINS AND DRAPERIES	1 650	1 712	324	31.7	224.7	27.2	47.9	163.6	4D7.3	1 013.1
2392	HOUSEFURNISHINGS, NEC	980	1 051	403	47.5	366.4	39.8	75.4	260.0	782.9	2 294.0
2393	TEXTILE BAGS	211	228	9D	8.2	66.7	6.8	12.9	46.8	122.2	321.8
2394	CANVAS AND RELATED PRODUCTS	987	1 003	148	13.9	121.6	11.0	19.3	75.1	237.4	486.8
2395	PLEATING AND STITCHING	770	778	206	16.1	130.9	13.2	22.9	89.0	281.8	620.2
2396	AUTOMOTIVE AND APPAREL TRIMMINGS	686	715	188	30.9	476.4	26.3	51.7	374.0	1 000.2	2 166.3
2397	SCHIFFLI MACHINE EMBROIDERIES	357	363	58	6.0	56.3	5.3	10.4	42.5	96.7	158.D
2399	FABRICATED TEXTILE PRODUCTS, NEC	845	878	272	31.1	263.8	26.0	47.1	187.4	531.D	1 152.9
24	LUMBER AND WOOD PRODUCTS	34 962	37 302	7 056	692.4	7 424.7	594.8	1 147.6	5 795.0	16 222.9	39 919.4
2411	LOGGING CAMPS, LOG CONTRACTORS	15 344	15 469	708	83.3	1 DD9.D	74.5	127.7	84D.1	2 418.7	6 23D.1
242	SAWMILLS AND PLANING MILLS	8 263	9 DDD	2 273	211.3	2 228.3	187.8	375.8	1 849.0	4 975.D	11 969.3
2421	SAWMILLS, PLANING MILLS, GENERAL	6 966	7 544	1 827	175.2	1 943.D	155.8	315.6	1 622.7	4 452.8	10 866.7
2426	HARDWOOD DIMENSION AND FLOORING	845	89D	345	29.1	225.D	25.8	49.8	177.5	413.1	850.0
2429	SPECIAL PRODUCT SAWMILLS, NEC	522	566	101	7.0	60.3	6.1	10.4	48.8	1D9.1	252.6
243	MILLWORK, PLYWOOD, STRUC. MEMBS	5 710	6 149	1 878	197.1	2 216.4	167.4	328.8	1 714.9	4 700.4	11 381.9
2431	MILLWORK	2 209	2 333	692	68.6	742.2	56.6	1D8.4	542.0	1 497.9	3 928.1
2434	WOOD KITCHEN CABINETS	2 451	2 583	510	46.2	481.1	38.7	72.3	352.3	868.6	1 59D.8
2435	HARDWOOD VENEER AND PLYWOOD	274	321	227	22.3	211.5	19.1	37.9	162.D	420.2	1 250.4
2436	SOFTWOOD VENEER AND PLYWOOD	129	256	224	46.2	634.6	41.9	89.4	556.9	1 583.7	3 804.8
2439	STRUCTURAL WOOD MEMBERS, NEC	620	656	225	13.8	147.D	11.0	20.8	1D1.6	330.D	807.7
244	WOOD CONTAINERS	1 882	1 949	54D	37.8	299.6	33.4	61.3	233.7	539.7	1 217.1
2441	NAILED WOOD BOXES AND SHOOK	391	396	11D	8.6	68.6	7.5	13.7	53.6	116.2	263.3
2448	WOOD PALLETS AND SKIDS	1 267	1 29D	348	20.3	163.8	17.9	32.1	126.3	303.1	698.0
2449	WOOD CONTAINERS, NEC	238	263	82	8.9	67.2	8.0	15.5	53.7	12D.4	255.8
245	WOOD BUILDINGS AND MOBILE HOMES	803	1 165	752	79.5	858.2	63.D	121.1	576.2	1 789.1	5 147.9

See footnotes at end of table.

Table 4. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**–Con.

Code	Industry group and industry	1977--Continued							All employees		1972		
		New capital expenditures[4]			Inventories		Ratios						
		Total (million dollars)	Structures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
227	FLOOR COVERING MILLS	82.5	12.1	70.4	753.5	694.2	(NA)	(NA)	59.9	415.3	1 076.0	3 153.0	74.7
2271	WOVEN CARPETS AND RUGS	1.1	.4	.8	26.9	23.9	(D)	81	6.5	44.5	93.2	212.3	3.2
2272	TUFTED CARPETS AND RUGS	78.7	11.1	67.6	696.8	644.1	96	99	50.1	348.0	926.8	2 775.2	67.1
2279	CARPETS AND RUGS, NEC	2.6	.6	2.0	29.9	26.2	(D)	74	3.3	23.6	58.2	165.5	4.4
228	YARN AND THREAD MILLS	180.0	23.9	156.1	616.0	592.1	(NA)	(NA)	147.5	866.1	1 579.5	4 242.8	221.7
2281	YARN MILLS, EXCEPT WOOL	114.4	13.5	101.0	363.6	362.2	92	72	89.6	516.3	867.2	2 248.3	96.3
2282	THROWING AND WINDING MILLS	51.1	8.3	42.9	132.3	122.1	92	55	38.0	230.9	477.8	1 427.6	113.7
2283	WOOL YARN MILLS	2.7	.2	2.5	17.4	18.7	90	71	8.3	49.7	92.7	221.4	4.2
2284	THREAD MILLS	11.8	2.0	9.8	102.7	89.2	96	91	11.7	69.2	141.8	345.4	7.5
229	MISCELLANEOUS TEXTILE GOODS	112.0	29.4	82.6	641.3	610.5	(NA)	(NA)	71.9	539.7	1 149.4	2 813.1	82.3
2291	FELT GOODS, EXC. WOVEN FELT, HATS	5.7	1.5	4.3	36.3	33.0	82	82	5.0	38.3	80.5	146.5	2.8
2292	LACE GOODS	1.0	.2	.8	12.6	11.7	98	98	2.9	17.3	29.4	47.1	1.7
2293	PADDINGS AND UPHOLSTERY FILLING	5.8	1.9	4.0	19.6	19.1	92	84	4.4	34.2	64.5	134.6	2.9
2294	PROCESSED TEXTILE WASTE	5.8	1.9	3.9	27.5	26.2	98	95	3.6	22.2	50.9	133.8	3.2
2295	COATED FABRICS, NOT RUBBERIZED	26.0	7.8	18.2	190.0	188.4	87	89	18.0	167.8	382.4	865.8	29.6
2296	TIRE CORD AND FABRIC	7.0	.5	6.6	126.7	130.0	90	99	10.0	70.0	145.8	685.1	8.8
2297	NONWOVEN FABRICS	41.1	10.5	30.5	121.5	104.0	86	66	10.8	80.6	191.8	397.4	15.0
2298	CORDAGE AND TWINE	6.5	1.7	4.9	79.4	73.4	90	95	9.0	55.4	96.3	191.0	4.9
2299	TEXTILE GOODS, NEC	13.0	3.5	9.4	27.8	24.7	96	68	8.3	53.9	107.7	211.8	13.4
23	APPAREL, OTHER TEXTILE PRODS	456.7	114.0	342.6	5 535.8	5 125.3	(NA)	(NA)	1 368.3	7 212.0	13 487.5	27 809.2	363.5
2311	MEN'S AND BOYS' SUITS AND COATS	25.8	5.8	20.0	470.5	416.8	93	92	124.8	770.3	1 342.2	2 396.9	22.5
232	MEN'S AND BOYS' FURNISHINGS	118.3	32.2	86.1	1 547.6	1 409.0	(NA)	(NA)	363.4	1 692.3	3 241.6	6 904.6	90.2
2321	MEN'S, BOYS' SHIRTS, NIGHTWEAR	25.9	6.2	19.7	501.4	442.6	92	92	113.4	514.9	1 003.8	2 104.3	24.1
2322	MEN'S AND BOYS' UNDERWEAR	2.6	.5	2.0	55.1	50.8	87	91	16.0	68.6	130.9	239.3	5.7
2323	MEN'S AND BOYS' NECKWEAR	2.6	.8	1.8	29.6	26.3	100	97	11.1	70.0	143.4	294.9	4.0
2327	MEN'S AND BOYS' SEPARATE TROUSERS	22.8	5.0	17.9	281.9	279.8	84	88	91.3	439.3	784.9	1 745.0	22.2
2328	MEN'S AND BOYS' WORK CLOTHING	44.1	13.8	30.3	477.7	427.4	89	94	89.6	389.0	784.8	1 738.0	24.1
2329	MEN'S AND BOYS' CLOTHING, NEC	20.2	5.9	14.3	201.9	182.2	83	80	41.9	210.4	393.8	783.2	10.1
233	WOMEN'S AND MISSES' OUTERWEAR	133.6	36.9	96.7	1 338.2	1 259.4	(NA)	(NA)	432.6	2 269.6	4 102.0	8 278.2	98.3
2331	WOMEN'S, MISSES' BLOUSES, WAISTS	24.0	4.9	19.2	222.5	197.3	85	75	63.0	328.1	592.4	1 254.9	30.0
2335	WOMEN'S AND MISSES' DRESSES	45.2	10.8	34.5	386.1	363.0	95	95	211.6	1 076.9	1 888.7	3 580.0	32.6
2337	WOMEN'S, MISSES' SUITS AND COATS	22.0	7.5	14.5	297.0	291.1	80	83	75.9	446.7	839.8	1 805.3	16.4
2339	WOMEN'S, MISSES' OUTERWEAR, NEC	42.4	13.8	28.5	432.6	408.0	80	81	82.1	417.9	781.0	1 638.0	19.3
234	WOMEN'S, CHILDREN'S UNDERGARMS	22.9	6.3	16.7	397.7	373.1	(NA)	(NA)	105.4	524.8	1 049.0	1 978.9	24.0
2341	WOMEN'S AND CHILDREN'S UNDERWEAR	18.7	5.5	13.2	275.9	256.5	95	87	77.5	372.0	709.0	1 331.9	19.3
2342	BRASSIERES AND ALLIED GARMENTS	4.2	.8	3.5	121.9	116.7	92	99	28.0	152.8	340.0	647.0	4.6
235	HATS, CAPS, AND MILLINERY	4.1	1.2	2.9	57.5	53.4	(NA)	(NA)	14.5	72.6	133.4	229.1	2.2
2351	MILLINERY	.2	(Z)	.2	5.8	5.7	99	(D)	3.2	17.0	33.2	58.1	.3
2352	HATS AND CAPS, EXCEPT MILLINERY	3.9	1.2	2.7	51.7	47.6	96	94	11.3	55.6	100.2	171.0	1.9
236	CHILDREN'S OUTERWEAR	14.4	2.5	12.0	245.7	239.5	(NA)	(NA)	74.8	367.5	709.1	1 421.9	19.8
2361	CHILDREN'S DRESSES AND BLOUSES	6.4	1.2	5.2	106.5	94.9	89	87	35.4	174.4	335.8	655.2	12.9
2363	CHILDREN'S COATS AND SUITS	1.3	.2	1.1	20.7	17.1	87	78	9.2	48.5	90.4	188.5	.8
2369	CHILDREN'S OUTERWEAR, NEC	6.7	1.1	5.6	118.5	127.5	84	77	30.1	144.6	282.9	578.2	6.1
2371	FUR GOODS	.5	.2	.3	46.5	41.3	100	99	4.7	41.2	86.2	220.0	1.1
238	MISC. APPAREL AND ACCESSORIES	20.7	5.2	15.5	274.7	242.9	(NA)	(NA)	61.9	334.6	635.9	1 280.0	14.9
2381	FABRIC DRESS AND WORK GLOVES	3.5	.4	3.1	42.1	39.1	91	84	11.9	56.3	100.3	198.8	1.9
2384	ROBES AND DRESSING GOWNS	3.3	.9	2.5	44.1	38.0	89	93	10.0	50.0	92.5	202.8	2.0
2385	WATERPROOF OUTERGARMENTS	5.6	2.1	3.5	59.6	52.6	91	90	15.4	86.4	168.8	332.1	2.4
2386	LEATHER AND SHEEP LINED CLOTHING	1.6	.6	.9	32.3	25.8	97	91	7.0	40.8	82.1	172.1	2.5
2387	APPAREL BELTS	2.5	.3	2.2	50.9	43.9	88	96	10.3	65.9	132.5	257.5	3.2
2389	APPAREL AND ACCESSORIES, NEC	4.2	1.0	3.2	45.7	43.4	90	95	7.3	35.3	59.7	116.8	2.8
239	MISC. FABRICATED TEXTILE PRODS	116.4	23.7	92.7	1 157.4	1 090.0	(NA)	(NA)	186.2	1 139.1	2 188.2	5 099.5	90.4
2391	CURTAINS AND DRAPERIES	7.2	1.6	5.6	151.2	140.5	95	93	33.9	167.1	302.3	754.9	9.5
2392	HOUSEFURNISHINGS, NEC	26.9	6.3	20.6	393.0	345.7	89	61	50.3	281.9	585.2	1 526.9	29.9
2393	TEXTILE BAGS	5.8	1.4	4.4	59.4	57.6	82	84	7.9	44.0	74.5	255.1	5.5
2394	CANVAS AND RELATED PRODUCTS	8.4	2.2	6.2	101.0	91.5	93	92	12.9	75.9	130.3	276.4	4.0
2395	PLEATING AND STITCHING	9.3	1.8	7.5	82.9	75.5	96	98	16.7	89.2	174.7	308.2	3.2
2396	AUTOMOTIVE AND APPAREL TRIMMINGS	36.1	6.4	29.6	194.3	214.7	98	96	27.6	266.6	530.8	1 133.0	10.4
2397	SCHIFFLI MACHINE EMBROIDERIES	3.3	.4	2.9	10.1	8.9	97	98	5.5	38.9	75.0	120.5	2.2
2399	FABRICATED TEXTILE PRODUCTS, NEC	19.4	3.7	15.7	165.4	155.6	94	89	31.4	175.3	315.5	724.7	25.9
24	LUMBER AND WOOD PRODUCTS	1 562.6	290.9	1 271.6	4 663.8	4 258.1	(NA)	(NA)	691.0	4 985.6	10 310.2	23 829.7	931.2
2411	LOGGING CAMPS, LOG CONTRACTORS	386.5	56.3	330.2	555.8	520.6	97	94	80.0	523.9	1 163.4	2 529.5	157.0
242	SAWMILLS AND PLANING MILLS	584.2	100.0	484.2	1 598.8	1 493.2	(NA)	(NA)	204.4	1 488.4	3 259.3	7 244.3	329.3
2421	SAWMILLS, PLANING MILLS, GENERAL	535.8	86.8	449.0	1 420.6	1 333.7	92	93	166.6	1 272.2	2 906.0	6 470.8	306.8
2426	HARDWOOD DIMENSION AND FLOORING	35.3	9.3	26.0	147.4	125.3	91	92	31.5	173.9	272.1	579.0	16.8
2429	SPECIAL PRODUCT SAWMILLS, NEC	13.1	3.9	9.2	30.8	34.2	98	92	6.4	40.0	80.4	180.8	5.7
243	MILLWORK, PLYWOOD, STRUC. MEMBS	272.7	58.5	214.2	1 344.9	1 208.3	(NA)	(NA)	190.7	1 474.3	2 908.4	6 703.3	194.8
2431	MILLWORK	81.0	27.6	53.3	605.0	545.3	94	94	70.5	524.5	962.7	2 426.8	57.2
2434	WOOD KITCHEN CABINETS	36.7	11.3	25.5	212.3	187.2	96	96	38.8	286.6	486.7	897.2	28.3
2435	HARDWOOD VENEER AND PLYWOOD	29.6	3.7	25.9	197.7	176.1	91	93	25.1	165.2	340.8	911.8	32.1
2436	SOFTWOOD VENEER AND PLYWOOD	105.6	10.6	95.1	242.6	229.2	88	91	43.7	403.6	935.4	2 011.5	65.4
2439	STRUCTURAL WOOD MEMBERS, NEC	19.7	5.4	14.4	87.3	70.5	94	93	12.6	94.4	182.8	456.0	11.8
244	WOOD CONTAINERS	29.6	6.3	23.3	139.9	134.4	(NA)	(NA)	36.8	203.8	358.8	773.5	21.2
2441	NAILED WOOD BOXES AND SHOOK	5.4	1.3	4.1	31.2	30.2	89	83	10.7	61.1	103.8	237.9	6.4
2448	WOOD PALLETS AND SKIDS	21.3	4.4	17.0	58.1	52.4	90	91	14.3	77.7	140.9	295.4	11.2
2449	WOOD CONTAINERS, NEC	2.9	.6	2.3	50.5	51.8	93	97	11.9	65.0	114.1	240.2	3.6
245	WOOD BUILDINGS AND MOBILE HOMES	110.0	43.0	66.9	422.4	350.0	(NA)	(NA)	97.1	745.4	1 490.9	4 289.0	93.0

See footnotes at end of table.

Table 4. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977									
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
2451	MOBILE HOMES	308	597	465	50.5	527.6	41.8	80.5	371.8	1 030.5	3 199.3
2452	PREFABRICATED WOOD BUILDINGS	512	568	287	29.0	330.6	21.2	40.6	204.4	758.6	1 948.6
249	MISCELLANEOUS WOOD PRODUCTS	3 292	3 570	905	83.4	813.3	68.8	132.8	581.2	1 799.9	3 973.1
2491	WOOD PRESERVING	366	457	192	12.6	126.1	9.9	19.7	82.9	327.1	962.6
2492	PARTICLEBOARD	36	63	51	6.2	79.1	5.0	10.9	60.3	207.2	452.9
2499	WOOD PRODUCTS, NEC	2 909	3 050	662	64.6	608.1	53.9	102.3	438.0	1 265.5	2 557.6
25	FURNITURE AND FIXTURES	9 421	10 235	3 588	463.8	4 448.3	383.6	736.4	3 191.8	8 921.7	16 978.0
251	HOUSEHOLD FURNITURE	5 585	6 161	2 224	309.7	2 669.2	265.2	505.3	1 998.7	5 212.7	10 392.1
2511	WOOD HOUSEHOLD FURNITURE	2 795	2 983	816	141.0	1 138.8	124.8	245.0	898.7	2 239.9	4 148.8
2512	UPHOLSTERED HOUSEHOLD FURNITURE	1 357	1 473	730	89.1	779.2	75.7	137.6	583.9	1 437.3	2 931.0
2514	METAL HOUSEHOLD FURNITURE	405	448	213	33.2	302.7	27.4	51.6	208.6	637.4	1 307.1
2515	MATTRESSES AND BEDSPRINGS	832	962	355	27.0	279.8	20.6	39.3	175.3	616.6	1 398.5
2517	WOOD TV AND RADIO CABINETS	91	94	51	10.7	89.0	9.3	17.6	70.5	150.4	304.8
2519	HOUSEHOLD FURNITURE, NEC	198	201	59	8.7	79.7	7.5	14.3	61.7	131.0	301.9
252	OFFICE FURNITURE	483	523	233	45.0	542.6	35.1	69.1	375.9	1 236.1	2 009.4
2521	WOOD OFFICE FURNITURE	319	331	119	16.0	165.0	12.8	25.5	110.2	381.3	612.0
2522	METAL OFFICE FURNITURE	167	192	114	29.0	377.6	22.3	43.6	265.7	854.8	1 397.4
2531	PUBLIC BLDG., RELATED FURNITURE	401	420	185	20.0	214.3	15.0	29.2	132.9	414.9	787.4
254	PARTITIONS AND FIXTURES	2 067	2 134	666	57.4	675.1	44.3	85.9	454.2	1 311.0	2 408.8
2541	WOOD PARTITIONS AND FIXTURES	1 572	1 598	394	29.4	352.9	23.0	45.3	241.0	621.4	1 105.8
2542	METAL PARTITIONS AND FIXTURES	508	536	272	28.0	322.2	21.3	40.5	213.2	689.7	1 303.0
259	MISC. FURNITURE AND FIXTURES	964	997	280	31.7	347.0	24.0	46.9	230.1	746.9	1 380.3
2591	DRAPERY HARDWARE, BLINDS, SHADES	435	456	85	13.6	145.6	10.3	20.0	99.1	345.0	675.1
2599	FURNITURE AND FIXTURES, NEC	528	541	195	18.1	201.4	13.7	27.0	131.0	401.9	705.2
26	PAPER AND ALLIED PRODUCTS	4 394	6 545	3 999	628.7	8 942.9	486.3	985.9	6 323.1	22 170.9	52 085.7
2611	PULPMILLS	26	45	42	16.2	293.2	12.5	25.4	220.7	906.1	2 091.1
2621	PAPERMILLS, EXCEPT BUILDING PAPER	171	339	287	127.0	2 167.0	100.4	210.4	1 631.7	5 406.6	12 613.3
2631	PAPERBOARD MILLS	120	249	232	67.6	1 175.8	53.0	112.5	888.0	3 080.7	7 124.3
264	MISC. CONVERTED PAPER PRODUCTS	2 323	2 994	1 435	206.7	2 608.1	158.0	316.1	1 771.3	7 263.0	16 433.2
2641	PAPER COATING AND GLAZING	454	529	239	39.7	551.2	27.2	56.8	335.1	1 507.0	3 392.0
2642	ENVELOPES	182	265	184	22.6	270.0	17.6	34.6	182.4	503.4	990.5
2643	BAGS, EXCEPT TEXTILE BAGS	462	596	355	48.7	584.1	38.8	77.6	411.7	1 349.6	3 482.3
2645	DIE-CUT PAPER AND BOARD	316	371	141	14.3	174.6	11.3	22.7	119.6	429.5	1 057.7
2646	PRESSED AND MOLDED PULP GOODS	25	38	27	4.9	58.8	4.0	8.4	48.7	153.7	240.3
2647	SANITARY PAPER PRODUCTS	72	120	89	34.5	509.1	27.4	54.5	381.8	2 194.5	4 921.2
2648	STATIONERY PRODUCTS	219	242	109	12.6	135.2	9.8	18.5	91.0	291.0	651.7
2649	CONVERTED PAPER PRODUCTS, NEC	783	833	291	29.4	325.1	21.9	43.3	201.1	834.3	1 697.5
265	PAPERBOARD CONTAINERS AND BOXES	1 794	2 860	1 950	204.1	2 601.8	156.5	309.0	1 733.4	5 296.3	13 350.1
2651	FOLDING PAPERBOARD BOXES	452	574	374	44.7	577.8	35.8	71.8	409.8	1 136.8	2 579.0
2652	SETUP PAPERBOARD BOXES	280	312	209	13.1	115.3	11.2	20.6	80.8	211.6	360.5
2653	CORRUGATED AND SOLID FIBER BOXES	863	1 472	1 034	101.5	1 374.8	73.5	146.5	867.0	2 704.1	7 351.1
2654	SANITARY FOOD CONTAINERS	122	193	138	28.7	336.7	22.7	43.5	228.2	836.8	2 048.4
2655	FIBER CANS, DRUMS, SIMILAR PRODS	166	309	195	16.1	197.3	13.4	26.7	147.6	406.9	1 011.1
2661	BUILDING PAPER AND BOARD MILLS	19	58	53	7.0	96.9	5.9	12.5	77.9	218.2	473.7
27	PRINTING AND PUBLISHING	46 604	49 767	9 132	1 092.2	14 024.5	625.8	1 152.8	7 322.1	31 979.5	49 716.2
2711	NEWSPAPERS	7 821	8 867	2 147	349.9	4 306.0	147.2	252.5	1 805.3	9 519.1	13 055.9
2721	PERIODICALS	2 860	2 994	525	69.9	1 019.8	10.6	20.5	115.7	3 762.7	6 056.5
273	BOOKS	2 536	2 694	716	106.4	1 378.5	50.9	97.5	544.2	4 291.1	6 485.7
2731	BOOK PUBLISHING	1 650	1 744	346	59.5	830.2	13.3	24.9	140.1	3 261.9	4 793.9
2732	BOOK PRINTING	897	950	370	46.9	548.2	37.6	72.6	404.1	1 029.2	1 691.8
2741	MISCELLANEOUS PUBLISHING	2 266	2 352	335	42.1	503.0	15.4	27.1	150.3	1 290.7	1 850.9
275	COMMERCIAL PRINTING	26 109	26 815	3 637	356.0	4 701.8	275.1	511.3	3 275.3	8 551.2	15 015.8
2751	COMMERCIAL PRINTING, LETTERPRESS	14 375	14 521	1 059	110.9	1 307.3	88.0	159.6	913.6	2 440.6	4 284.3
2752	COMMERCIAL PRINTING, LITHOGRAPHIC	10 964	11 320	2 362	216.3	2 984.1	163.7	307.4	2 045.7	5 338.4	9 359.7
2753	ENGRAVING AND PLATE PRINTING	511	550	118	9.8	118.9	7.6	13.5	84.5	230.8	314.9
2754	COMMERCIAL PRINTING, GRAVURE	401	424	98	19.0	291.6	15.8	30.8	231.5	541.4	1 056.8
2761	MANIFOLD BUSINESS FORMS	601	795	477	45.3	575.0	33.3	67.3	390.9	1 491.6	2 893.8
2771	GREETING CARD PUBLISHING	155	166	52	18.1	226.8	10.6	21.7	105.8	655.9	1 072.1
278	BLANKBOOKS AND BOOKBINDING	1 343	1 492	576	55.9	579.1	46.1	88.6	418.6	1 148.7	1 656.2
2782	BLANKBOOKS AND LOOSELEAF BINDERS	371	505	288	31.8	338.5	25.2	49.8	235.0	739.9	1 122.6
2789	BOOKBINDING AND RELATED WORK	974	987	288	24.1	240.6	20.9	38.8	183.6	408.8	533.6
279	PRINTING TRADE SERVICES	3 492	3 592	667	48.4	734.6	36.4	66.5	516.0	1 268.4	1 629.4
2791	TYPESETTING	2 370	2 406	389	27.2	364.7	21.7	38.8	271.6	623.4	730.6
2793	PHOTOENGRAVING	440	449	56	5.7	89.3	3.8	6.8	58.4	168.2	218.0
2794	ELECTROTYPING AND STEREOTYPING	40	40	5	.4	6.8	.3	.5	4.6	10.0	13.8
2795	LITHOGRAPHIC PLATEMAKING SERVICES	677	697	217	15.2	273.9	10.6	20.4	181.5	466.8	667.0
28	CHEMICALS AND ALLIED PRODUCTS	8 510	12 173	4 602	880.2	13 839.3	543.6	1 089.7	7 446.2	56 720.6	118 153.6
281	INDUSTRIAL INORGANIC CHEMICALS	550	1 282	490	110.0	1 847.2	67.8	138.6	1 033.4	6 487.2	12 845.0
2812	ALKALIES AND CHLORINE	30	49	33	11.8	215.9	8.0	16.0	136.2	822.5	1 654.8
2813	INDUSTRIAL GASES	109	562	102	7.5	117.2	4.6	9.6	67.0	732.8	1 234.6
2816	INORGANIC PIGMENTS	71	106	66	11.9	179.8	8.0	16.4	110.2	567.9	1 259.9

See footnotes at end of table.

Table 4. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977--Continued							1972				
		New capital expenditures[4]			Inventories		Ratios		All employees				
		Total (million dollars)	Structures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
2451	MOBILE HOMES	69.8	27.1	42.7	193.3	165.5	99	99	71.9	547.3	1 033.9	3 242.9	63.4
2452	PREFABRICATED WOOD BUILDINGS	40.2	15.9	24.3	229.1	184.5	98	98	25.2	198.1	457.1	1 046.1	29.6
249	MISCELLANEOUS WOOD PRODUCTS	179.7	26.8	152.9	602.1	551.6	(NA)	(NA)	82.0	549.9	1 129.4	2 290.1	135.7
2491	WOOD PRESERVING	30.3	3.3	27.0	212.5	184.5	97	97	11.3	74.5	175.8	475.8	14.8
2492	PARTICLEBOARD	32.5	3.2	29.3	21.1	21.7	99	95	7.7	65.5	144.5	295.4	34.6
2499	WOOD PRODUCTS, NEC	116.9	20.3	96.5	368.5	345.4	94	93	63.0	410.0	809.1	1 518.9	86.3
25	FURNITURE AND FIXTURES	388.7	119.2	269.4	2 750.3	2 504.7	(NA)	(NA)	462.0	3 205.4	6 097.1	11 320.3	306.2
251	HOUSEHOLD FURNITURE	211.2	60.1	151.1	1 637.3	1 515.4	(NA)	(NA)	317.4	2 023.7	3 860.5	7 409.6	202.6
2511	WOOD HOUSEHOLD FURNITURE	101.9	26.8	75.2	821.5	771.6	94	96	133.8	806.8	1 556.9	2 870.0	93.8
2512	UPHOLSTERED HOUSEHOLD FURNITURE	50.4	16.6	33.9	378.6	341.2	91	96	92.0	605.3	1 104.0	2 104.7	54.7
2514	METAL HOUSEHOLD FURNITURE	22.8	4.7	18.1	217.0	197.9	89	91	34.4	222.5	447.2	890.4	16.9
2515	MATTRESSES AND BEDSPRINGS	14.5	3.7	10.8	155.6	142.7	95	86	31.4	233.7	479.9	1 041.7	20.7
2517	WOOD TV AND RADIO CABINETS	11.1	5.1	6.0	30.5	31.6	92	90	18.9	111.2	176.9	330.2	9.5
2519	HOUSEHOLD FURNITURE, NEC	10.4	3.3	7.1	34.1	30.5	79	84	6.9	44.2	95.6	172.6	7.0
252	OFFICE FURNITURE	67.6	23.8	43.8	344.4	299.6	(NA)	(NA)	39.3	330.0	659.9	1 111.2	31.8
2521	WOOD OFFICE FURNITURE	26.5	12.4	14.1	107.1	88.4	85	90	11.5	80.1	146.7	249.7	7.3
2522	METAL OFFICE FURNITURE	41.1	11.4	29.7	237.2	211.1	94	92	27.8	249.9	513.2	861.5	24.5
2531	PUBLIC BLDG., RELATED FURNITURE	22.3	6.8	15.5	138.3	122.0	88	87	-	-	-	-	-
254	PARTITIONS AND FIXTURES	58.9	19.4	39.5	394.7	351.2	(NA)	(NA)	57.4	483.9	871.0	1 527.7	34.0
2541	WOOD PARTITIONS AND FIXTURES	22.4	7.4	15.0	158.2	141.8	92	88	31.2	268.2	458.6	793.2	14.6
2542	METAL PARTITIONS AND FIXTURES	36.5	12.0	24.5	236.5	209.4	89	91	26.2	215.7	412.4	734.5	19.4
259	MISC. FURNITURE AND FIXTURES	28.7	9.2	19.5	235.7	216.5	(NA)	(NA)	26.5	209.9	409.9	736.5	24.7
2591	DRAPERY HARDWARE, BLINDS, SHADES	16.7	5.8	10.9	115.6	106.4	95	96	12.1	94.4	198.2	364.5	9.9
2599	FURNITURE AND FIXTURES, NEC	12.0	3.3	8.6	120.1	110.1	87	82	14.5	115.5	211.7	372.0	14.8
26	PAPER AND ALLIED PRODUCTS	3 295.0	326.0	2 969.0	5 641.5	5 281.0	(NA)	(NA)	633.4	5 992.1	13 064.1	28 261.9	1 335.3
2611	PULPMILLS	301.1	13.0	288.0	257.0	223.6	86	72	10.6	125.7	306.9	709.9	136.4
2621	PAPERMILLS, EXCEPT BUILDING PAPER	1 115.2	70.3	1 044.8	1 259.5	1 209.8	92	92	129.9	1 439.6	2 909.3	6 385.2	372.3
2631	PAPERBOARD MILLS	933.7	71.4	862.3	537.5	509.1	84	92	68.5	778.2	1 994.4	4 153.5	313.5
264	MISC. CONVERTED PAPER PRODUCTS	507.4	95.2	412.2	1 943.0	1 746.3	(NA)	(NA)	189.1	1 630.0	4 008.2	8 452.4	288.6
2641	PAPER COATING AND GLAZING	98.7	15.2	83.5	451.2	420.5	80	87	37.2	366.6	984.4	1 954.0	52.3
2642	ENVELOPES	22.9	3.5	19.4	122.2	109.9	97	93	22.9	194.6	347.1	620.8	17.4
2643	BAGS, EXCEPT TEXTILE BAGS	93.4	19.4	74.0	424.9	410.8	88	90	48.6	385.5	840.5	1 885.7	53.9
2645	DIE-CUT PAPER AND BOARD	15.3	2.8	12.5	114.3	94.0	88	84	15.2	132.5	301.6	676.3	10.6
2646	PRESSED AND MOLDED PULP GOODS	10.9	1.0	9.9	24.5	22.0	98	99	6.1	51.8	100.6	162.8	7.0
2647	SANITARY PAPER PRODUCTS	199.1	39.0	160.1	409.9	333.8	93	99	26.3	256.1	882.8	2 071.8	119.6
2648	STATIONERY PRODUCTS	15.9	4.1	11.8	118.2	114.4	86	80	14.7	106.3	225.6	450.5	9.3
2649	CONVERTED PAPER PRODUCTS, NEC	51.1	10.1	41.0	277.7	241.0	88	81	18.1	136.6	325.6	630.6	18.5
265	PAPERBOARD CONTAINERS AND BOXES	421.0	73.8	347.2	1 599.4	1 549.0	(NA)	(NA)	223.7	1 907.0	3 598.8	8 104.7	205.5
2651	FOLDING PAPERBOARD BOXES	89.8	14.2	75.5	421.8	402.2	87	91	45.3	398.1	739.7	1 487.0	37.4
2652	SETUP PAPERBOARD BOXES	8.8	2.0	6.8	48.2	46.4	93	87	18.1	111.6	195.9	321.3	6.4
2653	CORRUGATED AND SOLID FIBER BOXES	243.3	43.1	200.1	664.8	668.4	99	99	107.9	976.3	1 736.9	4 308.8	101.5
2654	SANITARY FOOD CONTAINERS	52.4	10.2	42.2	345.5	320.9	87	86	35.1	277.7	659.8	1 419.7	42.3
2655	FIBER CANS, DRUMS, SIMILAR PROD	26.7	4.3	22.4	119.2	111.1	93	89	17.3	143.3	266.4	568.0	17.9
2661	BUILDING PAPER AND BOARD MILLS	16.6	2.2	14.4	45.0	43.1	93	83	11.6	111.6	246.5	456.2	18.8
27	PRINTING AND PUBLISHING	1 597.8	310.5	1 287.2	4 200.6	3 943.0	(NA)	(NA)	1 056.5	9 831.2	20 209.5	30 146.4	1 047.7
2711	NEWSPAPERS	478.1	93.5	384.6	382.1	371.8	96	100	348.5	3 168.1	6 219.9	8 262.8	359.5
2721	PERIODICALS	78.9	22.4	56.5	349.6	314.7	90	96	66.5	708.5	2 109.9	3 510.6	56.8
273	BOOKS	134.1	25.4	108.8	1 186.0	1 153.7	(NA)	(NA)	98.1	918.9	2 540.3	3 794.5	82.3
2731	BOOK PUBLISHING	79.8	16.3	63.5	992.0	963.4	94	88	57.1	557.7	1 935.8	2 856.8	48.4
2732	BOOK PRINTING	54.3	9.1	45.3	194.0	190.3	85	78	40.9	361.2	604.5	937.7	33.9
2741	MISCELLANEOUS PUBLISHING	39.1	14.1	25.0	139.1	121.7	95	89	38.8	331.2	775.8	1 070.2	22.7
275	COMMERCIAL PRINTING	639.5	114.9	524.6	1 359.8	1 200.1	(NA)	(NA)	344.2	3 277.4	5 695.0	9 329.7	377.8
2751	COMMERCIAL PRINTING, LETTERPRESS	163.0	32.0	131.0	372.7	345.8	89	81	130.1	1 131.7	2 003.0	3 291.8	129.2
2752	COMMERCIAL PRINTING, LITHOGRAPHIC	360.2	56.9	303.3	861.9	747.1	87	88	184.0	1 835.3	3 155.1	5 124.8	220.6
2753	ENGRAVING AND PLATE PRINTING	17.8	3.5	14.3	23.5	20.6	88	92	9.6	80.7	152.4	201.6	5.1
2754	COMMERCIAL PRINTING, GRAVURE	98.5	22.5	76.0	101.7	86.7	91	83	20.0	225.4	372.2	697.6	22.5
2761	MANIFOLD BUSINESS FORMS	82.1	12.5	69.6	336.7	313.7	93	95	38.6	343.6	823.6	1 429.7	45.8
2771	GREETING CARD PUBLISHING	18.8	5.8	13.0	160.6	207.8	78	95	23.5	191.5	527.0	774.4	46.4
278	BLANKBOOKS AND BOOKBINDING	55.3	11.1	44.2	175.9	155.1	(NA)	(NA)	51.7	371.6	686.8	968.2	25.6
2782	BLANKBOOKS AND LOOSELEAF BINDERS	36.0	9.0	27.1	130.2	112.0	86	91	26.6	192.7	390.6	591.1	14.4
2789	BOOKBINDING AND RELATED WORK	19.3	2.2	17.1	45.7	43.1	96	94	25.1	178.9	296.2	377.2	11.2
279	PRINTING TRADE SERVICES	71.7	10.7	61.1	110.8	104.5	(NA)	(NA)	46.6	520.5	831.3	1 006.3	30.6
2791	TYPESETTING	36.7	5.9	30.8	42.5	38.5	97	89	26.0	269.8	426.0	482.8	14.2
2793	PHOTOENGRAVING	7.5	1.2	6.3	13.2	11.6	83	79	9.9	119.3	191.7	229.7	5.4
2794	ELECTROTYPING AND STEREOTYPING	.1	(Z)	.1	.5	.5	79	66	1.7	19.0	28.5	36.8	.5
2795	LITHOGRAPHIC PLATEMAKING SERVICES	27.4	3.5	23.9	54.5	53.8	87	89	8.9	112.4	185.1	257.0	10.5
28	CHEMICALS AND ALLIED PRODUCTS	8 198.9	1 246.3	6 952.6	14 791.3	13 447.5	(NA)	(NA)	836.5	8 730.5	32 413.9	57 349.6	2 728.4
281	INDUSTRIAL INORGANIC CHEMICALS	1 055.5	138.8	916.6	1 305.7	1 161.2	(NA)	(NA)	99.5	1 078.5	3 343.1	6 132.7	333.4
2812	ALKALIES AND CHLORINE	220.0	22.2	197.7	141.8	132.4	63	58	13.3	152.0	455.6	823.2	61.5
2813	INDUSTRIAL GASES	243.0	23.2	219.8	45.6	27.8	97	93	9.6	87.2	466.7	679.3	84.1
2816	INORGANIC PIGMENTS	124.3	11.7	112.5	251.5	240.7	88	84	12.8	134.6	382.6	796.9	38.9

See footnotes at end of table.

Table 4. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977									
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
2819	INDUSTRIAL INORGANIC CHEM., NEC. . .	345	565	289	78.8	1 334.2	47.3	96.7	720.1	4 363.9	8 695.7
282	PLASTICS MATERIALS, SYNTHETICS . .	373	551	408	157.2	2 470.7	111.3	221.7	1 558.0	7 842.9	20 064.1
2821	PLASTICS MATERIALS AND RESINS. . . .	221	397	310	57.2	985.6	36.7	76.6	575.7	4 142.7	10 818.2
2822	SYNTHETIC RUBBER	56	63	30	10.0	185.2	7.1	14.2	125.7	568.6	1 863.3
2823	CELLULOSIC MANMADE FIBERS.	20	25	10	16.0	213.7	12.6	25.2	151.8	327.2	1 002.8
2824	ORGANIC FIBERS, NONCELLULOSIC. . . .	37	66	58	74.0	1 086.1	54.8	105.8	704.8	2 804.4	6 379.7
283	DRUGS.	1 020	1 243	482	156.4	2 459.6	80.3	157.5	997.2	9 939.9	14 247.8
2831	BIOLOGICAL PRODUCTS.	250	310	113	15.7	210.2	8.8	17.3	90.5	563.4	898.5
2833	MEDICINALS AND BOTANICALS.	153	177	76	14.4	219.9	8.4	17.1	127.2	1 162.2	1 889.9
2834	PHARMACEUTICAL PREPARATIONS.	655	756	293	126.4	2 029.5	63.1	123.1	779.4	8 214.4	11 459.4
284	SOAPS, CLEANERS, TOILET GOODS. . .	2 252	2 528	739	111.6	1 526.1	71.1	138.9	822.8	9 407.2	16 330.7
2841	SOAP AND OTHER DETERGENTS.	554	638	225	32.1	521.6	20.5	41.0	308.1	2 867.5	5 671.4
2842	POLISHES AND SANITATION GOODS. . . .	946	1 022	238	22.1	274.7	14.1	27.2	148.5	1 667.2	3 157.3
2843	SURFACE ACTIVE AGENTS.	148	175	84	6.6	101.9	3.7	7.7	47.3	345.7	944.8
2844	TOILET PREPARATIONS.	644	693	192	50.9	627.9	32.8	62.9	318.9	4 526.7	6 557.2
2851	PAINTS AND ALLIED PRODUCTS	1 288	1 579	653	61.4	882.6	33.0	66.2	394.1	2 821.3	6 629.7
286	INDUSTRIAL ORGANIC CHEMICALS . . .	574	879	510	152.8	2 794.2	97.8	200.1	1 625.3	12 875.1	30 261.1
2861	GUM AND WOOD CHEMICALS	100	119	37	4.8	54.0	3.8	7.8	38.9	185.0	391.3
2865	CYCLIC CRUDES AND INTERMEDIATES. . .	135	191	127	35.7	631.5	23.4	46.6	369.8	2 214.4	5 637.0
2869	INDUSTRIAL ORGANIC CHEMICALS, NEC. .	384	569	346	112.3	2 108.7	70.7	145.7	1 216.5	10 475.7	24 232.8
287	AGRICULTURAL CHEMICALS	885	1 325	482	53.9	784.0	35.3	72.8	454.8	3 807.9	9 932.2
2873	NITROGENOUS FERTILIZERS.	110	152	88	12.1	207.9	7.9	17.1	128.4	1 202.0	2 603.4
2874	PHOSPHATIC FERTILIZERS	45	91	69	14.4	212.8	10.1	21.7	139.2	817.7	2 681.7
2875	FERTILIZERS, MIXING ONLY	457	673	204	12.4	139.1	8.1	16.0	68.9	488.9	1 866.6
2879	AGRICULTURAL CHEMICALS, NEC.	338	409	121	15.0	224.1	9.3	17.9	118.2	1 299.3	2 780.4
289	MISCELLANEOUS CHEMICAL PRODUCTS. .	2 146	2 786	838	76.9	1 075.0	47.1	94.2	560.9	3 539.0	7 843.2
2891	ADHESIVES AND SEALANTS	405	573	213	16.7	230.7	10.2	20.6	113.5	748.7	1 813.1
2892	EXPLOSIVES	63	97	53	12.3	173.2	8.4	16.1	101.4	410.7	666.3
2893	PRINTING INK	205	446	157	10.1	145.1	5.8	11.4	71.6	367.8	944.9
2895	CARBON BLACK	8	31	31	2.5	42.5	2.0	4.6	32.5	170.2	468.4
2899	CHEMICAL PREPARATIONS, NEC	1 479	1 639	384	35.3	483.4	20.7	41.5	242.0	1 841.7	3 950.6
29	PETROLEUM AND COAL PRODUCTS. . .	1 361	2 206	773	146.8	2 696.2	101.1	207.9	1 765.4	16 377.6	97 452.7
2911	PETROLEUM REFINING	192	349	279	102.5	2 055.3	70.8	144.4	1 366.4	14 423.9	91 688.8
295	PAVING AND ROOFING MATERIALS . . .	729	1 297	328	32.3	461.3	23.9	51.0	319.4	1 272.0	3 655.9
2951	PAVING MIXTURES AND BLOCKS	590	1 022	164	12.8	189.6	9.6	20.1	133.6	507.8	1 578.3
2952	ASPHALT FELTS AND COATINGS	146	275	164	19.5	271.7	14.3	31.0	185.9	764.2	2 077.6
299	MISC. PETROLEUM, COAL PRODUCTS . .	472	560	166	11.9	179.6	6.4	12.5	79.6	681.7	2 108.0
2992	LUBRICATING OILS AND GREASES	417	490	143	10.3	157.1	5.4	10.4	65.4	524.8	1 644.7
2999	PETROLEUM AND COAL PRODUCTS, NEC . .	60	70	23	1.6	22.5	1.1	2.1	14.2	157.0	463.3
30	RUBBER, MISC. PLASTICS PROD. . .	10 047	11 943	5 294	721.3	8 536.0	563.7	1 110.6	5 841.6	19 740.0	39 552.8
3011	TIRES AND INNER TUBES.	121	200	126	114.0	1 832.4	88.3	176.4	1 366.0	4 347.3	8 971.0
3021	RUBBER AND PLASTICS FOOTWEAR	67	84	50	19.8	159.1	16.4	30.0	115.9	272.3	517.0
3031	RECLAIMED RUBBER	21	21	9	.9	11.5	.7	1.5	8.4	24.8	41.6
3041	RUBBER, PLASTICS HOSE AND BELTING. .	101	146	103	34.4	457.4	23.4	45.3	274.9	973.5	1 765.7
3069	FABRICATED RUBBER PRODUCTS, NEC. . .	1 127	1 280	621	98.5	1 164.0	77.1	153.3	795.4	2 351.9	4 565.0
3079	MISCELLANEOUS PLASTICS PRODUCTS. . .	8 748	10 212	4 385	453.7	4 911.7	358.0	704.1	3 281.0	11 770.1	23 692.6
31	LEATHER AND LEATHER PRODUCTS . .	2 654	3 075	1 486	242.5	1 859.7	211.5	381.9	1 408.1	3 718.8	7 607.4
3111	LEATHER TANNING AND FINISHING. . . .	428	465	191	23.0	254.8	19.6	38.2	192.2	535.1	1 456.1
3131	BOOT, SHOE CUT STOCK AND FINDINGS. .	174	190	96	8.5	65.3	7.4	13.0	48.8	109.4	270.6
314	FOOTWEAR, EXCEPT RUBBER.	541	811	603	145.5	1 031.5	129.2	231.3	822.4	2 069.5	3 891.7
3142	HOUSE SLIPPERS	65	78	55	8.1	54.5	7.0	11.7	39.6	108.8	201.2
3143	MEN'S FOOTWEAR, EXCEPT ATHLETIC. . .	115	213	180	55.0	417.0	49.2	90.1	332.2	871.9	1 734.5
3144	WOMEN'S FOOTWEAR, EXCEPT ATHLETIC. .	243	328	241	57.6	388.6	51.3	91.3	315.6	755.0	1 361.2
3149	FOOTWEAR, EXCEPT RUBBER, NEC	159	192	127	24.8	171.4	21.8	38.2	135.1	333.7	594.8
3151	LEATHER GLOVES AND MITTENS	84	101	66	5.5	33.9	4.7	8.2	25.5	67.6	178.0
3161	LUGGAGE.	286	298	130	19.2	164.1	15.8	29.0	105.5	328.3	654.9
317	WOMEN'S HANDBAGS AND PURSES. . . .	654	678	283	32.1	242.2	27.8	49.9	170.0	472.2	872.0
3171	WOMEN'S HANDBAGS AND PURSES.	404	418	186	20.3	144.0	18.2	32.8	109.1	266.5	505.2
3172	PERSONAL LEATHER GOODS, NEC.	253	260	97	11.9	98.2	9.6	17.2	60.9	205.8	366.8
3199	LEATHER GOODS, NEC	512	532	117	8.6	67.9	7.0	12.4	43.7	136.7	284.2
32	STONE, CLAY, GLASS PRODUCTS. . .	14 495	17 744	5 201	613.7	7 943.1	484.4	960.7	5 766.6	19 129.6	35 476.6
3211	FLAT GLASS	43	62	32	21.9	401.0	18.5	39.9	328.2	931.0	1 576.6
322	GLASS, PRESSED OR BLOWN.	353	508	249	117.0	1 548.2	101.1	194.5	1 268.9	3 592.0	5 784.2
3221	GLASS CONTAINERS	31	126	124	70.8	975.4	62.5	120.1	823.0	2 138.9	3 664.2
3229	PRESSED AND BLOWN GLASS, NEC	325	382	125	46.2	572.8	38.6	74.4	445.9	1 453.1	2 120.1
3231	PRODUCTS OF PURCHASED GLASS.	1 000	1 101	325	36.2	429.2	28.8	56.7	305.9	960.2	1 842.4
3241	CEMENT, HYDRAULIC.	87	201	160	27.8	485.1	22.2	44.4	380.0	1 671.5	3 042.3
325	STRUCTURAL CLAY PRODUCTS	504	711	471	45.0	486.4	36.6	73.3	360.3	1 057.8	1 852.0

See footnotes at end of table.

Table 4. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977--Continued							1972			
		New capital expenditures[4]			Inventories		Ratios		All employees				
		Total (million dollars)	Structures and additions to plant (million Dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
2819	INDUSTRIAL INORGANIC CHEM., NEC. . .	468.2	81.7	386.6	866.9	760.3	[5]87	[5]77	63.8	704.7	2 038.2	3 833.3	149.0
282	PLASTICS MATERIALS, SYNTHETICS . .	1 316.1	151.9	1 164.3	2 020.5	1 854.1	(NA)	(NA)	161.9	1 666.3	4 935.4	9 796.0	693.9
2821	PLASTICS MATERIALS AND RESINS. . . .	895.2	101.2	794.0	1 093.6	982.3	85	74	54.8	632.8	2 160.5	4 478.2	253.2
2822	SYNTHETIC RUBBER	53.2	3.9	49.3	154.3	148.9	91	71	11.8	138.8	491.7	1 089.4	35.5
2823	CELLULOSIC MANMADE FIBERS.	29.3	1.0	28.3	110.8	107.9	(D)	(D)	17.1	135.2	243.5	589.5	32.7
2824	ORGANIC FIBERS, NONCELLULOSIC. . . .	338.5	45.8	292.7	661.8	614.9	84	97	78.2	759.5	2 039.8	3 638.9	372.5
283	DRUGS.	578.5	154.8	423.7	2 446.5	2 231.6	(NA)	(NA)	129.9	1 413.3	6 130.9	8 018.5	245.3
2831	BIOLOGICAL PRODUCTS.	35.4	11.3	24.2	246.9	222.3	93	73	10.1	102.9	231.4	360.0	27.2
2833	MEDICINALS AND BOTANICALS.	123.8	19.8	104.0	307.0	297.9	82	68	7.8	80.8	260.0	509.0	51.5
2834	PHARMACEUTICAL PREPARATIONS. . . .	419.3	123.8	295.5	1 892.6	1 711.5	86	97	112.0	1 229.7	5 639.5	7 149.5	166.7
284	SOAPS, CLEANERS, TOILET GOODS. . .	334.0	65.8	268.2	1 794.9	1 699.8	(NA)	(NA)	111.6	1 058.2	6 200.6	9 777.6	236.1
2841	SOAP AND OTHER DETERGENTS.	135.5	15.9	119.6	643.4	616.7	84	89	31.5	341.6	2 038.8	3 394.4	90.7
2842	POLISHES AND SANITATION GOODS. . . .	51.8	12.7	39.2	274.9	264.3	76	79	25.1	216.9	1 118.1	1 867.6	54.3
2843	SURFACE ACTIVE AGENTS.	41.1	8.2	32.8	116.3	106.9	81	55	6.9	71.5	209.5	462.6	19.7
2844	TOILET PREPARATIONS.	105.6	29.0	76.6	760.3	712.0	95	87	48.2	428.2	2 834.1	4 053.0	71.4
2851	PAINTS AND ALLIED PRODUCTS	167.4	52.5	114.9	937.6	864.2	96	97	65.9	647.2	1 791.7	3 821.8	81.5
286	INDUSTRIAL ORGANIC CHEMICALS . . .	3 352.5	511.1	2 841.5	3 852.8	3 439.3	(NA)	(NA)	136.6	1 614.3	6 073.1	11 605.4	831.6
2861	GUM AND WOOD CHEMICALS	27.0	10.8	16.2	65.7	63.6	76	67	5.9	47.6	155.4	332.3	11.1
2865	CYCLIC CRUDES AND INTERMEDIATES. . .	443.1	52.6	390.5	844.4	784.2	68	67	28.2	318.2	929.7	2 049.6	158.8
2869	INDUSTRIAL ORGANIC CHEMICALS, NEC. .	2 882.6	447.7	2 434.9	2 942.7	2 591.5	69	84	102.4	1 248.6	4 988.0	9 223.5	661.7
287	AGRICULTURAL CHEMICALS	1 107.2	99.0	1 008.2	1 564.7	1 394.3	(NA)	(NA)	47.9	438.4	1 736.5	3 929.1	155.8
2873	NITROGENOUS FERTILIZERS.	734.4	34.7	699.6	378.0	296.9	84	72	9.4	104.3	447.6	799.4	33.2
2874	PHOSPHATIC FERTILIZERS	111.8	13.8	97.9	419.7	353.9	93	91	14.9	135.1	426.4	1 178.9	65.8
2875	FERTILIZERS, MIXING ONLY	41.9	9.3	32.6	306.5	303.3	95	98	11.4	82.5	263.6	800.0	17.2
2879	AGRICULTURAL CHEMICALS, NEC.	219.2	41.1	178.0	460.6	440.2	83	77	12.2	116.5	598.9	1 150.8	39.5
289	MISCELLANEOUS CHEMICAL PRODUCTS. .	287.4	72.3	215.2	868.1	802.8	(NA)	(NA)	83.1	814.3	2 202.6	4 268.4	150.8
2891	ADHESIVES AND SEALANTS	39.0	9.4	29.6	202.5	187.3	89	81	14.9	148.2	426.6	928.0	24.9
2892	EXPLOSIVES	26.1	7.3	18.8	59.8	54.8	86	95	18.6	178.9	281.7	402.7	30.1
2893	PRINTING INK	17.0	4.3	12.8	116.7	101.7	97	97	9.6	99.3	232.0	508.4	12.6
2895	CARBON BLACK	22.7	1.5	21.2	32.7	27.3	[6]95	[6]95	2.9	31.9	137.6	227.0	11.8
2899	CHEMICAL PREPARATIONS, NEC	182.6	49.8	132.9	456.5	431.7	87	77	37.1	356.0	1 124.7	2 202.3	71.3
29	PETROLEUM AND COAL PRODUCTS. . .	2 261.3	617.8	1 643.5	5 656.3	4 912.9	(NA)	(NA)	139.5	1 637.5	5 793.1	28 694.7	1 154.2
2911	PETROLEUM REFINING	2 108.6	589.2	1 519.5	5 196.2	4 471.6	99	97	100.8	1 247.1	4 594.7	25 921.1	1 061.6
295	PAVING AND ROOFING MATERIALS . . .	112.5	21.3	91.2	220.0	196.1	(NA)	(NA)	29.5	296.5	846.4	1 932.9	75.9
2951	PAVING MIXTURES AND BLOCKS	57.3	8.4	48.9	62.8	53.5	95	93	13.9	147.7	403.1	922.5	56.3
2952	ASPHALT FELTS AND COATINGS	55.2	13.0	42.2	157.2	142.6	91	97	15.6	148.7	443.3	1 010.4	19.6
299	MISC. PETROLEUM, COAL PRODUCTS . .	40.1	7.2	32.9	240.1	245.2	(NA)	(NA)	9.2	93.9	352.1	840.7	16.7
2992	LUBRICATING OILS AND GREASES	25.6	5.7	19.9	180.8	192.9	94	44	8.1	83.3	295.8	703.1	13.7
2999	PETROLEUM AND COAL PRODUCTS, NEC . .	14.5	1.5	13.0	59.3	52.3	97	87	1.1	10.6	56.3	137.6	3.0
30	RUBBER, MISC. PLASTICS PROD. . .	1 645.3	306.4	1 338.9	4 952.7	4 441.4	(NA)	(NA)	617.7	5 165.2	11 653.3	20 923.7	1 059.6
3011	TIRES AND INNER TUBES.	289.0	38.4	250.6	1 172.1	1 015.0	96	99	107.5	1 214.1	3 070.8	5 747.1	267.1
3021	RUBBER AND PLASTICS FOOTWEAR	11.3	.9	10.4	140.7	129.0	93	99	31.6	182.6	370.3	600.0	17.7
3031	RECLAIMED RUBBER	.5	(Z)	.5	3.7	3.7	100	62	.9	9.1	15.6	29.7	.7
3041	RUBBER, PLASTICS HOSE AND BELTING. .	55.3	15.3	40.1	275.4	267.6	88	92	31.9	309.0	618.7	1 020.1	31.6
3069	FABRICATED RUBBER PRODUCTS, NEC. . .	135.0	28.2	106.9	510.5	476.6	88	90	99.0	808.8	1 573.1	2 830.9	88.5
3079	MISCELLANEOUS PLASTICS PRODUCTS. . .	1 154.2	223.7	930.5	2 850.3	2 549.6	94	91	346.9	2 641.6	6 004.7	10 695.9	654.0
31	LEATHER AND LEATHER PRODUCTS . .	96.2	21.6	74.6	1 098.9	1 033.0	(NA)	(NA)	273.4	1 589.3	2 917.2	5 769.5	74.5
3111	LEATHER TANNING AND FINISHING. . . .	30.7	6.8	23.9	187.6	176.1	99	99	25.7	200.0	368.3	1 059.5	16.3
3131	BOOT, SHOE CUT STOCK AND FINDINGS. .	3.0	.8	2.2	31.2	33.0	90	92	8.7	50.1	86.2	206.5	2.9
314	FOOTWEAR, EXCEPT RUBBER.	37.1	9.0	28.1	558.0	518.8	(NA)	(NA)	176.2	972.7	1 796.1	3 272.2	37.1
3142	HOUSE SLIPPERS	2.3	.7	1.6	29.7	28.9	94	96	8.5	48.1	85.7	151.4	1.6
3143	MEN'S FOOTWEAR, EXCEPT ATHLETIC. . .	14.5	3.4	11.0	272.2	245.6	92	96	61.5	358.1	674.4	1 288.9	14.3
3144	WOMEN'S FOOTWEAR, EXCEPT ATHLETIC. .	9.7	2.1	7.6	147.4	148.3	97	92	77.4	408.4	763.6	1 346.1	14.8
3149	FOOTWEAR, EXCEPT RUBBER, NEC	10.6	2.8	7.8	108.7	96.0	84	83	28.7	158.1	272.5	485.8	6.4
3151	LEATHER GLOVES AND MITTENS	1.9	.3	1.6	33.7	30.9	83	85	4.9	22.1	43.0	98.2	.5
3161	LUGGAGE.	8.1	1.0	7.1	113.5	114.8	94	98	17.1	106.8	194.1	364.5	8.9
317	WOMEN'S HANDBAGS AND PURSES. . . .	11.4	2.4	9.0	124.5	116.2	(NA)	(NA)	33.6	195.1	345.1	607.2	6.5
3171	WOMEN'S HANDBAGS AND PURSES.	6.6	1.7	4.9	61.9	56.1	97	97	22.2	121.7	201.5	365.0	3.7
3172	PERSONAL LEATHER GOODS, NEC.	4.8	.7	4.1	62.5	60.2	96	91	11.5	73.4	143.7	242.2	2.8
3199	LEATHER GOODS, NEC	4.1	1.4	2.7	50.6	43.2	94	95	7.2	42.5	84.3	161.3	2.2
32	STONE, CLAY, GLASS PRODUCTS. . .	1 881.4	337.2	1 544.2	4 279.3	3 995.3	(NA)	(NA)	623.2	5 546.9	12 586.5	21 537.5	1 195.5
3211	FLAT GLASS	81.1	11.8	69.3	211.4	191.9	[6]90	(D)	20.9	241.9	662.1	937.1	95.0
322	GLASS, PRESSED OR BLOWN.	364.5	59.1	305.4	759.4	760.9	(NA)	(NA)	118.8	1 057.5	2 341.1	3 393.8	176.7
3221	GLASS CONTAINERS	220.9	34.3	186.7	408.7	429.6	99	99	72.9	659.4	1 399.7	2 126.5	121.1
3229	PRESSED AND BLOWN GLASS, NEC	143.6	24.9	118.7	350.7	331.2	97	96	45.9	398.1	941.4	1 267.3	55.6
3231	PRODUCTS OF PURCHASED GLASS. . . .	73.4	23.0	50.4	285.6	261.5	[6]95	(D)	33.7	296.1	668.9	1 330.1	34.5
3241	CEMENT, HYDRAULIC.	296.6	41.7	254.9	484.8	463.2	99	99	30.0	349.2	1 153.5	1 791.2	179.5
325	STRUCTURAL CLAY PRODUCTS	82.3	16.7	65.6	299.0	304.5	(NA)	(NA)	51.8	391.4	770.6	1 205.3	64.0

See footnotes at end of table.

Table 4. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977									
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
3251	BRICK AND STRUCTURAL CLAY TILE	250	352	262	20.5	197.3	17.0	34.0	149.2	467.9	777.7
3253	CERAMIC WALL AND FLOOR TILE	62	79	48	7.8	78.3	6.3	12.8	56.4	155.4	252.5
3255	CLAY REFRACTORIES	98	167	104	11.3	146.8	8.8	17.6	106.5	308.4	607.2
3259	STRUCTURAL CLAY PRODUCTS, NEC	94	113	57	5.5	64.0	4.5	8.9	48.2	126.1	214.6
326	POTTERY AND RELATED PRODUCTS	885	934	241	43.2	459.6	35.6	67.8	341.9	893.6	1 260.9
3261	VITREOUS PLUMBING FIXTURES	54	70	38	9.2	117.2	7.8	15.6	96.9	277.3	411.4
3262	VITREOUS CHINA FOOD UTENSILS	26	28	14	7.3	72.3	6.0	11.1	53.6	140.0	170.7
3263	FINE EARTHENWARE FOOD UTENSILS	22	23	17	4.7	38.4	3.5	6.4	27.1	61.2	81.3
3264	PORCELAIN ELECTRICAL SUPPLIES	77	86	56	11.4	144.4	9.1	17.6	98.0	253.9	367.5
3269	POTTERY PRODUCTS, NEC	713	727	116	10.6	87.4	9.2	17.1	66.2	161.2	230.0
327	CONCRETE, GYPSUM, PLASTER PRODS.	8 899	10 844	2 711	183.7	2 366.8	134.4	272.6	1 558.6	5 390.8	11 804.8
3271	CONCRETE BLOCK AND BRICK	1 162	1 273	348	18.7	237.1	11.8	24.1	126.6	520.3	1 143.8
3272	CONCRETE PRODUCTS, NEC	3 475	3 916	862	61.7	734.9	48.1	96.0	494.5	1 529.3	2 736.2
3273	READY-MIXED CONCRETE	4 317	5 433	1 357	87.9	1 175.8	62.0	125.3	766.6	2 693.2	6 440.6
3274	LIME	64	94	63	5.9	75.4	4.8	9.8	59.4	218.2	484.2
3275	GYPSUM PRODUCTS	58	128	81	9.5	143.6	7.6	17.3	111.5	429.6	1 000.0
3281	CUT STONE AND STONE PRODUCTS	963	993	164	12.7	131.5	10.6	21.4	98.8	238.2	393.0
329	MISC. NONMETALLIC MINERAL PRODS.	1 960	2 390	848	126.2	1 635.2	96.6	190.0	1 123.9	4 394.5	7 920.2
3291	ABRASIVE PRODUCTS	353	410	178	28.3	392.3	20.1	38.5	241.2	1 097.7	1 955.8
3292	ASBESTOS PRODUCTS	86	123	76	13.9	179.9	11.0	22.6	137.4	439.3	882.1
3293	GASKETS, PACKING, SEALING DEVICES	384	433	217	33.0	371.3	25.0	47.5	237.3	748.3	1 267.1
3295	MINERALS, GROUND OR TREATED	318	466	151	11.5	156.3	8.9	18.1	111.8	479.4	957.3
3296	MINERAL WOOL	95	153	90	22.6	313.8	18.6	38.3	244.5	1 053.7	1 790.5
3297	NONCLAY REFRACTORIES	74	109	66	9.1	134.3	6.8	13.5	92.5	352.1	680.2
3299	NONMETALLIC MINERAL PRODUCTS, NEC	681	696	70	7.7	87.2	6.2	11.4	59.1	224.1	387.3
33	PRIMARY METAL INDUSTRIES	5 929	7 375	3 980	1 113.6	18 745.0	885.3	1 744.0	14 065.2	37 568.2	103 179.4
331	BLAST FURNACE, BASIC STEEL PROD.	887	1 216	740	529.7	10 085.5	417.9	804.5	7 631.3	18 318.4	50 582.1
3312	BLAST FURNACES AND STEEL MILLS	395	504	250	441.9	8 725.7	350.2	668.7	6 653.0	15 331.9	41 998.2
3313	ELECTROMETALLURGICAL PRODUCTS	28	42	31	8.9	139.2	7.0	14.3	103.9	274.6	930.6
3315	STEEL WIRE AND RELATED PRODUCTS	262	335	223	31.7	436.6	24.3	49.0	304.9	924.4	2 258.6
3316	COLD FINISHING OF STEEL SHAPES	118	155	94	19.4	334.6	14.6	28.7	238.8	799.6	2 713.2
3317	STEEL PIPE AND TUBES	130	180	142	27.8	449.4	21.8	43.7	330.6	987.9	2 681.4
332	IRON AND STEEL FOUNDRIES	1 251	1 465	1 033	222.3	3 329.2	183.8	367.9	2 582.6	6 236.6	10 830.2
3321	GRAY IRON FOUNDRIES	865	984	683	138.8	2 146.0	116.8	236.1	1 703.2	4 070.7	7 388.7
3322	MALLEABLE IRON FOUNDRIES	58	66	53	18.2	273.0	14.6	27.9	202.5	458.8	721.9
3324	STEEL INVESTMENT FOUNDRIES	80	92	68	10.5	128.7	8.1	16.5	85.9	267.4	407.5
3325	STEEL FOUNDRIES, NEC	287	323	229	54.8	781.5	44.2	87.3	591.0	1 439.8	2 312.1
333	PRIMARY NONFERROUS METALS	103	160	99	57.3	1 032.1	44.9	89.1	768.4	3 618.6	10 660.2
3331	PRIMARY COPPER	8	27	27	13.1	217.3	10.6	20.6	167.5	904.3	3 918.1
3332	PRIMARY LEAD	4	7	7	2.5	40.5	2.0	4.1	30.2	189.5	699.6
3333	PRIMARY ZINC	8	9	7	4.6	70.5	3.5	6.9	49.3	114.3	430.7
3334	PRIMARY ALUMINUM	12	32	32	28.6	555.0	22.8	45.5	426.3	1 980.9	4 647.8
3339	PRIMARY NONFERROUS METALS, NEC	81	85	26	8.6	148.8	6.0	12.1	95.1	429.5	963.9
3341	SECONDARY NONFERROUS METALS	393	460	200	18.9	269.8	14.0	28.4	169.7	769.3	3 558.0
335	NONFERROUS ROLLING AND DRAWING	626	1 002	711	177.4	2 640.0	136.0	278.5	1 901.5	5 902.3	22 227.3
3351	COPPER ROLLING AND DRAWING	102	140	99	31.3	455.5	24.2	50.5	338.7	973.7	4 013.8
3353	ALUMINUM SHEET, PLATE, AND FOIL	31	53	45	31.4	613.5	25.0	50.6	480.1	1 340.6	5 970.7
3354	ALUMINUM EXTRUDED PRODUCTS	133	193	146	26.5	355.9	21.2	44.0	264.1	678.6	2 050.0
3355	ALUMINUM ROLLING AND DRAWING, NEC	18	22	15	4.7	78.1	3.6	6.9	56.5	222.8	1 001.0
3356	NONFERROUS ROLLING & DRAWING, NEC	153	173	86	17.2	260.2	12.2	24.7	158.7	569.0	22 596.5
3357	NONFERROUS WIREDRAWING, INSULATING	245	421	320	66.3	876.8	50.0	101.8	603.4	2 117.6	6 595.4
336	NONFERROUS FOUNDRIES	1 806	1 892	805	82.1	1 043.8	68.6	134.1	782.6	1 959.6	3 826.1
3361	ALUMINUM FOUNDRIES	994	1 038	461	52.2	691.4	44.2	86.3	531.0	1 262.7	2 459.1
3362	BRASS, BRONZE, COPPER FOUNDRIES	476	489	180	12.6	148.3	10.2	19.8	106.7	283.0	553.3
3369	NONFERROUS FOUNDRIES, NEC	359	365	164	17.3	204.1	14.2	28.0	144.9	413.9	813.7
339	MISC. PRIMARY METAL PRODUCTS	1 102	1 180	392	26.0	344.5	20.2	41.5	229.2	763.3	1 495.5
3398	METAL HEAT TREATING	682	753	273	16.9	220.1	13.3	27.6	147.9	466.8	744.9
3399	PRIMARY METAL PRODUCTS, NEC	406	427	119	9.0	124.4	6.9	13.9	81.2	296.5	750.6
34	FABRICATED METAL PRODUCTS	29 966	33 712	12 739	1 555.7	21 035.9	1 191.6	2 373.8	14 428.8	45 511.5	90 023.5
341	METAL CANS, SHIPPING CONTAINERS	269	587	413	72.3	1 246.5	60.0	126.5	999.6	3 643.9	9 180.0
3411	METAL CANS	153	403	300	59.8	1 066.3	50.2	106.4	870.8	3 254.3	8 242.8
3412	METAL BARRELS, DRUMS, AND PAILS	120	184	113	12.4	180.3	9.8	20.1	128.8	389.6	937.1
342	CUTLERY, HANDTOOLS AND HARDWARE	1 924	2 137	877	168.6	2 179.3	132.6	264.5	1 553.4	5 176.6	8 556.5
3421	CUTLERY	119	130	62	14.9	159.6	12.1	23.5	118.3	492.0	711.4
3423	HAND AND EDGE TOOLS, NEC	662	724	296	47.0	566.4	36.9	72.8	394.7	1 421.4	2 279.2
3425	HANDSAWS AND SAW BLADES	105	115	55	7.6	94.3	5.7	11.4	62.7	230.6	363.3
3429	HARDWARE, NEC	1 063	1 168	464	99.2	1 359.0	77.9	156.8	977.7	3 032.6	5 202.6
343	PLUMBING, HEATING, EXCEPT ELEC	960	1 015	341	53.2	636.8	40.6	80.4	422.8	1 573.6	3 087.6
3431	METAL SANITARY WARE	96	101	37	8.1	109.7	6.7	14.4	87.5	248.7	477.6
3432	PLUMBING FITTINGS AND BRASS GOODS	191	213	110	19.3	215.0	15.3	30.0	145.0	579.3	1 166.4
3433	HEATING EQUIPMENT, EXC. ELECTRIC	678	701	194	25.8	312.2	18.7	36.0	190.3	745.6	1 443.6
344	FABRICATED STRUC. METAL PRODS.	10 725	11 817	4 279	425.7	5 491.9	308.5	603.3	3 467.2	11 785.3	24 993.8
3441	FABRICATED STRUCTURAL METAL	2 319	2 462	1 074	99.3	1 313.6	72.8	144.2	836.9	2 559.8	5 505.2
3442	METAL DOORS, SASH, AND TRIM	1 498	1 672	644	65.8	671.3	50.1	97.0	425.0	1 418.3	3 135.6
3443	FABRICATED PLATEWORK, BOILER SHOP	1 683	1 864	944	123.5	1 777.8	87.7	171.6	1 125.8	4 075.3	7 432.4
3444	SHEET METALWORK	3 222	3 430	1 008	77.4	980.2	56.7	109.5	636.6	2 095.1	4 863.5
3446	ARCHITECTURAL METALWORK	1 477	1 511	225	20.8	247.7	15.1	29.4	152.3	505.5	947.1
3448	PREFABRICATED METAL BUILDINGS	414	466	199	22.7	289.7	15.9	31.6	174.9	694.5	1 779.2

See footnotes at end of table.

Table 4. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977--Continued							1972				
		New capital expenditures[4]			Inventories		Ratios		All employees				
		Total (million dollars)	Structures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
3251	BRICK AND STRUCTURAL CLAY TILE	49.6	10.2	39.5	93.2	98.3	99	99	24.1	168.4	336.4	513.0	38.6
3253	CERAMIC WALL AND FLOOR TILE	6.6	.7	6.0	42.1	40.3	99	95	8.3	58.5	112.3	175.6	7.6
3255	CLAY REFRACTORIES	20.0	4.4	15.6	126.4	131.4	89	95	11.2	100.5	202.1	336.0	10.8
3259	STRUCTURAL CLAY PRODUCTS, NEC	6.1	1.4	4.6	37.2	34.5	94	92	8.2	64.0	119.8	180.7	7.0
326	POTTERY AND RELATED PRODUCTS	45.2	11.5	33.7	182.0	169.0	(NA)	(NA)	44.9	335.3	600.6	834.8	23.1
3261	VITREOUS PLUMBING FIXTURES	7.3	1.9	5.4	48.9	49.1	92	95	9.6	86.5	186.8	270.0	5.8
3262	VITREOUS CHINA FOOD UTENSILS	5.4	1.6	3.8	30.0	26.2	[6]80	97	5.9	41.2	67.4	81.9	1.8
3263	FINE EARTHENWARE FOOD UTENSILS	1.7	.4	1.3	17.2	14.9	[6]85	76	6.8	41.4	56.2	74.3	3.1
3264	PORCELAIN ELECTRICAL SUPPLIES	20.9	5.3	15.6	59.3	54.3	86	82	13.4	114.0	190.4	274.6	7.2
3269	POTTERY PRODUCTS, NEC	9.8	2.4	7.5	26.7	24.6	95	85	9.1	52.2	99.9	134.0	5.2
327	CONCRETE, GYPSUM, PLASTER PRODS.	604.8	105.8	499.0	864.8	774.7	(NA)	(NA)	193.1	1 741.0	3 839.7	7 746.4	453.1
3271	CONCRETE BLOCK AND BRICK	55.6	9.8	45.9	124.0	118.4	93	85	22.8	196.0	438.5	855.7	46.2
3272	CONCRETE PRODUCTS, NEC	134.4	30.2	104.2	389.7	357.0	96	95	67.7	570.2	1 190.1	1 961.4	96.2
3273	READY-MIXED CONCRETE	353.1	54.1	299.0	231.5	193.7	93	98	85.7	809.3	1 756.7	4 050.9	247.8
3274	LIME	29.7	6.9	22.9	47.2	39.0	92	92	5.7	50.0	129.3	238.1	39.4
3275	GYPSUM PRODUCTS	31.9	4.9	27.0	72.4	66.6	96	98	11.2	115.5	325.1	640.3	23.3
3281	CUT STONE AND STONE PRODUCTS	10.4	2.1	8.3	53.8	50.0	96	95	15.0	109.2	191.4	304.5	12.6
329	MISC. NONMETALLIC MINERAL PRODS.	323.1	65.5	257.6	1 138.5	1 019.8	(NA)	(NA)	115.1	1 025.4	2 358.8	3 994.4	157.0
3291	ABRASIVE PRODUCTS	48.7	12.0	36.7	317.7	247.8	90	97	24.5	229.4	529.6	888.1	17.2
3292	ASBESTOS PRODUCTS	26.0	5.4	20.6	168.0	161.3	92	81	21.0	191.0	426.1	763.4	20.4
3293	GASKETS, PACKING, SEALING DEVICES	46.5	8.0	38.5	208.6	195.5	93	89	27.7	220.4	428.5	665.4	24.9
3295	MINERALS, GROUND OR TREATED	50.2	9.7	40.5	116.3	116.4	96	90	9.5	87.9	237.2	412.0	30.0
3296	MINERAL WOOL	85.9	12.2	73.7	121.5	116.5	93	96	18.0	172.3	441.5	755.4	50.1
3297	NONCLAY REFRACTORIES	37.1	6.9	30.2	159.5	141.8	92	83	8.1	78.3	191.1	343.6	9.3
3299	NONMETALLIC MINERAL PRODUCTS, NEC	28.7	11.2	17.4	46.9	40.5	93	89	6.3	46.0	104.7	166.5	5.0
33	PRIMARY METAL INDUSTRIES	4 496.8	652.8	3 844.0	18 458.3	17 884.5	(NA)	(NA)	1 142.8	12 166.5	23 258.1	58 429.7	2 160.6
331	BLAST FURNACE, BASIC STEEL PROD.	2 442.7	269.1	2 173.6	10 306.4	10 327.8	(NA)	(NA)	552.9	6 388.6	12 116.1	28 652.3	1 058.8
3312	BLAST FURNACES AND STEEL MILLS	2 143.0	225.5	1 917.6	8 471.6	8 620.6	(NA)	(NA)	469.1	5 537.8	10 304.7	23 946.7	961.2
3313	ELECTROMETALLURGICAL PRODUCTS	53.2	4.2	49.1	403.8	367.3	(D)	90	9.5	94.1	217.2	550.1	26.3
3315	STEEL WIRE AND RELATED PRODUCTS	79.4	14.3	65.1	422.8	409.7	95	47	30.6	287.9	583.5	1 227.7	26.6
3316	COLD FINISHING OF STEEL SHAPES	49.6	5.6	43.9	436.6	383.3	95	25	20.1	223.3	504.6	1 635.7	20.6
3317	STEEL PIPE AND TUBES	117.5	19.6	97.9	571.6	546.9	95	44	23.6	245.5	506.1	1 292.1	24.1
332	IRON AND STEEL FOUNDRIES	658.8	129.4	529.4	1 104.8	1 027.1	(NA)	(NA)	218.8	2 155.3	3 481.3	5 713.9	279.9
3321	GRAY IRON FOUNDRIES	503.1	102.3	400.8	654.4	596.2	96	88	138.4	1 387.4	2 257.0	3 876.5	202.5
3322	MALLEABLE IRON FOUNDRIES	28.9	6.5	22.4	43.6	41.1	86	93	22.5	234.5	342.6	507.9	34.9
3324	STEEL INVESTMENT FOUNDRIES	10.9	1.6	9.3	65.6	57.0	93	86	11.2	93.2	175.6	262.2	11.1
3325	STEEL FOUNDRIES, NEC	115.9	19.0	96.9	341.3	332.8	87	91	46.7	440.2	706.0	1 067.4	31.5
333	PRIMARY NONFERROUS METALS.	587.2	110.7	476.5	1 952.0	1 819.4	(NA)	(NA)	58.6	626.9	1 705.5	5 964.2	292.2
3331	PRIMARY COPPER	(D)	(D)	(D)	756.6	700.0	(7)	(7)	17.2	173.2	487.8	2 771.1	119.7
3332	PRIMARY LEAD	(D)	(D)	(D)	186.0	162.3	(7)	(7)	2.8	26.5	128.7	460.9	5.7
3333	PRIMARY ZINC	39.8	5.3	34.6	154.1	176.6	83	67	6.3	59.3	121.6	376.4	9.8
3334	PRIMARY ALUMINUM	158.7	22.2	136.5	646.8	590.1	95	70	25.6	296.2	816.0	1 959.8	136.5
3339	PRIMARY NONFERROUS METALS, NEC	97.1	7.4	89.7	208.5	190.5	90	44	6.7	71.7	151.5	395.9	20.6
3341	SECONDARY NONFERROUS METALS.	114.3	36.7	77.6	485.2	459.5	97	26	17.8	170.1	410.9	2 097.2	34.8
335	NONFERROUS ROLLING AND DRAWING	460.5	62.4	398.1	4 042.3	3 749.3	(NA)	(NA)	188.3	1 871.3	3 799.5	12 862.6	371.4
3351	COPPER ROLLING AND DRAWING	64.4	7.3	57.1	472.1	496.1	85	92	37.8	383.7	800.3	3 098.8	65.3
3353	ALUMINUM SHEET, PLATE, AND FOIL	157.7	19.0	138.7	1 625.2	1 325.2	92	99	31.3	370.7	692.3	2 685.2	90.3
3354	ALUMINUM EXTRUDED PRODUCTS	48.2	8.6	39.6	337.2	312.8	88	92	27.7	239.2	427.6	1 078.3	32.6
3355	ALUMINUM ROLLING AND DRAWING, NEC	16.1	2.2	13.9	169.5	183.6	91	65	4.6	48.0	57.3	343.4	9.2
3356	NONFERROUS ROLLING & DRAWING, NEC	34.3	5.7	28.6	477.5	483.7	94	93	18.1	184.2	374.1	1 244.6	24.3
3357	NONFERROUS WIREDRAW'G, INSULATING	139.8	19.6	120.2	960.7	948.0	94	93	68.8	645.6	1 448.0	4 412.3	149.7
336	NONFERROUS FOUNDRIES	163.7	32.0	131.8	349.2	316.9	(NA)	(NA)	81.4	721.5	1 269.1	2 323.8	73.5
3361	ALUMINUM FOUNDRIES	121.1	23.2	97.9	205.4	174.7	87	92	45.7	417.9	718.3	1 269.9	38.8
3362	BRASS, BRONZE, COPPER FOUNDRIES	17.9	3.7	14.2	59.2	55.6	85	74	15.4	129.6	236.9	465.3	17.4
3369	NONFERROUS FOUNDRIES, NEC	24.7	5.1	19.6	84.7	86.6	85	77	20.3	174.0	314.0	588.6	17.3
339	MISC. PRIMARY METAL PRODUCTS	69.5	12.5	57.0	218.2	184.4	(NA)	(NA)	25.0	232.8	475.7	815.7	50.0
3398	METAL HEAT TREATING	42.2	9.2	33.0	69.0	48.5	(8)	(8)	17.2	157.3	310.6	467.4	23.1
3399	PRIMARY METAL PRODUCTS, NEC	27.3	3.3	24.0	149.2	135.9	94	70	7.9	75.5	165.0	348.3	26.9
34	FABRICATED METAL PRODUCTS	2 606.1	480.9	2 125.3	15 306.2	14 111.8	(NA)	(NA)	1 493.3	13 820.6	26 914.5	51 739.3	1 323.2
341	METAL CANS, SHIPPING CONTAINERS	208.7	25.7	183.0	1 168.0	1 020.9	(NA)	(NA)	78.6	839.6	2 004.6	4 972.1	146.5
3411	METAL CANS	176.9	19.6	157.3	1 032.9	889.0	96	98	68.5	740.7	1 815.8	4 510.8	138.1
3412	METAL BARRELS, DRUMS, AND PAILS	31.8	6.1	25.7	135.0	132.0	94	90	10.2	98.9	188.8	461.3	8.4
342	CUTLERY, HANDTOOLS AND HARDWARE	298.9	45.9	253.1	1 544.7	1 385.2	(NA)	(NA)	159.2	1 404.9	3 253.4	5 094.3	143.0
3421	CUTLERY	23.3	5.0	18.3	132.1	129.0	92	94	13.4	102.6	322.3	427.5	11.7
3423	HAND AND EDGE TOOLS, NEC	72.0	14.1	58.0	487.4	437.3	91	90	39.3	343.0	780.0	1 233.1	33.5
3425	HANDSAWS AND SAW BLADES	13.4	1.4	12.0	75.5	68.3	86	77	6.6	56.7	127.5	194.4	6.4
3429	HARDWARE, NEC	190.2	25.4	164.8	849.7	750.6	94	94	99.9	902.6	2 023.6	3 239.4	91.4
343	PLUMBING, HEATING, EXCEPT ELEC	74.1	14.8	59.2	567.9	525.8	(NA)	(NA)	60.7	523.8	1 131.6	2 136.8	51.7
3431	METAL SANITARY WARE	11.3	2.0	9.3	65.5	72.1	82	92	11.2	104.4	208.2	370.2	8.2
3432	PLUMBING FITTINGS AND BRASS GOODS	30.3	3.8	26.5	239.8	219.6	96	92	18.6	151.5	361.8	708.2	19.0
3433	HEATING EQUIPMENT, EXC. ELECTRIC	32.4	9.0	23.5	262.6	234.0	87	84	30.9	268.0	561.6	1 058.4	24.5
344	FABRICATED STRUC. METAL PRODS.	580.2	158.7	421.5	4 832.4	4 576.9	(NA)	(NA)	394.8	3 531.8	6 742.9	14 179.6	317.5
3441	FABRICATED STRUCTURAL METAL	144.1	40.3	103.9	1 220.9	1 132.6	92	92	104.3	975.5	1 730.7	3 920.1	74.7
3442	METAL DOORS, SASH, AND TRIM	70.7	18.9	51.8	519.0	438.8	93	91	70.7	520.8	1 003.7	2 077.6	52.1
3443	FABRICATED PLATEWORK, BOILER SHOP	179.8	52.6	127.3	1 566.9	1 576.3	89	92	93.0	893.5	1 758.7	3 339.0	77.3
3444	SHEET METALWORK	110.6	26.5	84.1	841.9	771.5	92	90	74.0	678.5	1 299.9	2 680.0	59.0
3446	ARCHITECTURAL METALWORK	22.2	6.6	15.7	167.3	156.7	90	86	20.9	175.4	311.8	573.7	17.0
3448	PREFABRICATED METAL BUILDINGS	32.2	8.8	23.4	304.6	296.1	94	95	12.5	109.4	275.9	608.9	11.3

See footnotes at end of table.

Table 4. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977									
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
3449	MISCELLANEOUS METALWORK.	308	412	185	16.3	211.5	10.2	20.2	115.7	436.9	1 330.8
345	SCREW MACHINE PROD., BOLTS, ETC. .	2 431	2 627	1 102	104.7	1 414.0	81.6	168.2	983.2	2 864.2	5 091.2
3451	SCREW MACHINE PRODUCTS	1 727	1 770	654	43.8	551.6	36.0	74.3	395.5	1 023.9	1 771.7
3452	BOLTS, NUTS, RIVETS, AND WASHERS . .	723	857	448	60.9	862.4	45.6	93.9	587.6	1 840.3	3 319.5
346	METAL FORGINGS AND STAMPINGS . . .	3 389	3 715	1 875	288.0	4 511.3	236.1	479.6	3 418.9	8 913.4	18 264.2
3462	IRON AND STEEL FORGINGS.	312	358	231	39.1	641.5	31.0	60.8	474.8	1 301.4	2 795.7
3463	NONFERROUS FORGINGS.	43	47	31	5.4	93.7	4.2	8.2	64.8	240.7	456.7
3465	AUTOMOTIVE STAMPINGS	495	591	432	132.4	2 446.0	112.5	236.8	1 956.6	4 654.5	9 739.2
3466	CROWNS AND CLOSURES.	42	56	43	7.9	104.8	6.5	12.6	80.2	265.4	536.9
3469	METAL STAMPINGS, NEC	2 544	2 663	1 138	103.2	1 225.4	82.0	161.2	842.5	2 451.5	4 735.7
347	METAL SERVICES, NEC.	4 880	5 095	1 373	93.5	1 008.5	77.1	153.5	706.3	1 962.9	3 456.3
3471	PLATING AND POLISHING.	3 344	3 447	904	61.2	634.8	51.2	101.3	446.1	1 181.8	1 848.5
3479	METAL COATING AND ALLIED SERVICES. .	1 556	1 648	469	32.3	373.7	25.9	52.2	260.2	781.1	1 607.7
348	ORDNANCE AND ACCESSORIES, NEC. . .	306	346	151	70.2	991.7	46.9	91.7	559.2	1 736.8	2 641.4
3482	SMALL ARMS AMMUNITION.	59	65	16	10.3	138.1	7.7	15.4	95.3	247.5	436.2
3483	AMMUNITION, EXC. SMALL ARMS, NEC . .	68	80	48	18.9	248.1	12.4	23.5	133.2	448.7	716.5
3484	SMALL ARMS	105	112	46	17.5	237.8	13.1	27.1	157.3	481.5	754.9
3489	ORDNANCE AND ACCESSORIES NEC	89	89	41	23.6	367.7	13.7	25.8	173.3	559.2	733.8
349	MISC. FABRICATED METAL PRODUCTS. .	5 780	6 373	2 328	279.4	3 555.8	208.2	406.1	2 318.1	7 854.9	14 752.6
3493	STEEL SPRINGS, EXCEPT WIRE	116	131	59	8.2	119.8	6.6	13.3	88.0	249.9	500.5
3494	VALVES AND PIPE FITTINGS	741	902	532	108.7	1 467.3	76.0	149.6	909.8	3 385.9	5 662.3
3495	WIRE SPRINGS	254	332	226	21.7	253.5	18.0	35.4	187.8	497.7	957.7
3496	MISC. FABRICATED WIRE PRODUCTS . . .	1 048	1 114	387	32.4	354.5	25.5	49.4	232.2	721.7	1 435.0
3497	METAL FOIL AND LEAF.	63	77	52	9.4	125.8	6.6	13.0	87.1	298.0	895.1
3498	FABRICATED PIPE AND FITTINGS	513	579	278	28.2	390.0	21.4	40.6	265.4	887.2	1 872.7
3499	FABRICATED METAL PRODUCTS, NEC . . .	3 142	3 238	794	70.8	844.7	54.1	104.8	547.8	1 814.5	3 429.2
35	MACHINERY, EXCEPT ELECTRICAL . .	44 974	48 200	12 446	2 083.3	30 557.5	1 413.8	2 803.0	18 298.4	67 222.5	122 187.7
351	ENGINES AND TURBINES	251	315	168	129.6	2 237.6	90.1	181.2	1 404.7	4 959.6	10 426.2
3511	TURBINES, TURBINE GENERATOR SETS . .	68	83	37	40.8	709.1	24.8	51.1	368.5	1 553.1	2 729.7
3519	INTERNAL COMBUSTION ENGINES, NEC . .	187	232	131	88.8	1 528.6	65.3	130.1	1 036.2	3 406.5	7 696.5
352	FARM AND GARDEN MACHINERY.	1 991	2 159	756	150.9	2 196.5	110.8	210.4	1 456.4	5 490.2	11 857.0
3523	FARM MACHINERY AND EQUIPMENT	1 868	2 004	664	131.3	1 971.9	96.2	182.7	1 313.3	4 854.4	10 281.7
3524	LAWN AND GARDEN EQUIPMENT.	137	155	92	19.6	224.6	14.7	27.7	143.1	635.8	1 575.3
353	CONSTRUCTION, RELATED MACHINERY. .	2 777	3 229	1 518	333.0	5 096.7	226.3	443.2	3 184.5	11 835.6	23 681.6
3531	CONSTRUCTION MACHINERY	807	922	446	155.3	2 547.1	111.2	212.7	1 708.1	5 744.3	12 628.7
3532	MINING MACHINERY	293	344	168	31.4	425.9	20.3	39.7	262.9	1 018.8	1 996.7
3533	OILFIELD MACHINERY	386	478	247	58.6	867.5	39.8	83.4	543.3	2 437.6	3 912.4
3534	ELEVATORS AND MOVING STAIRWAYS . . .	134	152	72	10.2	141.9	5.9	11.5	69.4	284.5	489.7
3535	CONVEYORS AND CONVEYING EQUIPMENT. .	572	616	294	32.9	476.5	19.2	38.5	226.6	1 018.9	1 897.9
3536	HOISTS, CRANES, AND MONORAILS. . . .	231	242	121	15.8	210.5	10.6	20.6	122.0	453.2	836.0
3537	INDUSTRIAL TRUCKS AND TRACTORS . . .	450	475	170	28.8	427.3	19.4	36.7	252.2	878.2	1 920.1
354	METALWORKING MACHINERY	10 164	10 630	2 680	297.8	4 513.9	217.8	447.4	2 963.1	8 746.7	13 283.0
3541	MACHINE TOOLS, METAL-CUTTING	874	919	307	59.5	951.0	37.3	76.6	542.2	1 871.0	2 819.1
3542	MACHINE TOOLS, METAL-FORMING	411	426	163	23.7	360.7	16.1	32.8	219.4	721.9	1 130.6
3544	SPECIAL DIES, TOOLS, JIGS, ETC . . .	7 033	7 152	1 426	105.6	1 706.3	86.3	183.8	1 260.4	2 786.9	3 901.3
3545	MACHINE TOOL ACCESSORIES	1 271	1 412	492	54.1	762.5	39.9	80.2	498.2	1 585.8	2 384.5
3546	POWER DRIVEN HANDTOOLS	99	124	71	27.7	325.7	20.0	38.5	210.4	931.9	1 623.2
3547	ROLLING MILL MACHINERY	58	63	38	7.9	128.2	5.4	10.4	78.4	286.9	507.4
3549	METALWORKING MACHINERY, NEC.	522	534	183	19.4	279.5	12.8	25.2	154.1	562.2	916.8
355	SPECIAL INDUSTRY MACHINERY	3 798	4 090	1 487	185.0	2 615.9	117.6	235.7	1 449.9	5 271.4	9 128.2
3551	FOOD PRODUCTS MACHINERY.	685	740	315	36.3	522.1	22.8	45.4	292.6	1 056.4	1 786.8
3552	TEXTILE MACHINERY.	600	639	217	26.0	300.8	18.3	36.3	185.3	540.0	951.0
3553	WOODWORKING MACHINERY.	291	301	105	10.3	131.2	7.4	14.7	81.9	317.8	585.6
3554	PAPER INDUSTRIES MACHINERY	193	213	103	16.4	247.5	9.3	18.8	123.8	464.9	826.9
3555	PRINTING TRADES MACHINERY.	520	595	199	25.5	369.2	15.6	31.7	192.9	793.6	1 350.9
3559	SPECIAL INDUSTRY MACHINERY, NEC. . .	1 548	1 602	548	70.6	1 045.1	44.1	88.7	573.4	2 098.7	3 627.0
356	GENERAL INDUSTRIAL MACHINERY . . .	4 464	4 947	1 806	313.5	4 451.1	212.4	420.6	2 712.4	9 672.6	16 542.0
3561	PUMPS AND PUMPING EQUIPMENT.	515	613	285	63.0	900.6	39.8	79.5	506.9	2 141.6	3 773.7
3562	BALL AND ROLLER BEARINGS	102	149	104	50.6	752.6	41.3	82.4	579.9	1 472.7	2 567.3
3563	AIR AND GAS COMPRESSORS.	148	175	103	32.0	465.6	19.1	38.2	255.2	1 145.5	2 075.6
3564	BLOWERS AND FANS	432	482	198	28.0	356.8	18.6	36.7	209.6	776.7	1 430.8
3565	INDUSTRIAL PATTERNS.	1 001	1 002	115	9.3	152.7	8.0	15.8	122.2	252.5	320.6
3566	SPEED CHANGERS, DRIVES, AND GEARS. .	307	327	162	25.3	365.4	17.6	35.0	226.7	803.1	1 222.3
3567	INDUSTRIAL FURNACES AND OVENS. . . .	311	327	137	15.2	209.4	9.3	17.9	107.4	469.3	746.3
3568	POWER TRANSMISSION EQUIPMENT, NEC. .	184	226	163	32.5	464.8	23.8	45.8	306.8	1 009.1	1 626.0
3569	GENERAL INDUSTRIAL MACHINERY, NEC. .	1 586	1 646	539	57.5	783.2	34.9	69.2	397.7	1 602.2	2 779.5
357	OFFICE AND COMPUTING MACHINES. . .	1 175	1 317	610	259.3	3 948.8	123.5	243.3	1 384.4	9 921.4	16 841.9
3573	ELECTRONIC COMPUTING EQUIPMENT . . .	808	932	435	192.7	3 004.3	85.5	172.4	978.4	7 623.5	12 923.6
3574	CALCULATING, ACCOUNTING MACHINES . .	58	64	31	17.1	220.7	10.4	18.1	92.9	391.3	850.0
3576	SCALES, BALANCES, EXC. LABORATORY. .	92	103	46	7.1	84.5	4.7	9.1	46.9	214.9	348.1
3579	OFFICE MACHINES, TYPEWRITERS, ETC. .	191	215	98	42.4	639.1	22.9	43.7	266.1	1 691.4	2 719.7
358	REFRIGERATION AND SERVICE MACH . .	1 922	2 114	837	191.5	2 516.4	138.4	270.7	1 637.4	5 962.6	12 416.1
3581	AUTOMATIC MERCHANDISING MACHINES . .	108	113	35	8.8	103.2	6.4	12.4	65.1	211.7	410.1
3582	COMMERCIAL LAUNDRY EQUIPMENT	90	94	38	4.6	54.4	3.3	6.4	35.6	117.3	220.3
3585	REFRIGERATION, HEATING EQUIPMENT . .	731	860	457	138.6	1 849.7	104.4	205.4	1 270.2	4 469.2	9 638.1
3586	MEASURING AND DISPENSING PUMPS . . .	57	59	30	7.4	97.3	5.1	9.7	57.9	218.0	375.7
3589	SERVICE INDUSTRY MACHINERY, NEC. . .	959	988	277	32.1	411.8	19.2	36.9	208.6	946.4	1 771.8
359	MISC. MACHINERY, EXC. ELEC	19 257	19 399	2 584	222.7	2 980.4	176.8	350.5	2 105.6	5 362.4	8 011.8
3592	CARBURETORS, PISTONS, RINGS, ETC . .	131	151	84	32.2	508.5	26.0	52.5	388.5	924.9	1 400.6
3599	MACHINERY, EXCEPT ELECTRICAL, NEC. .	19 137	19 248	2 500	190.5	2 471.8	150.8	298.0	1 717.1	4 437.6	6 611.2

See footnotes at end of table.

Table 4. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977--Continued							1972				
		New capital expenditures[4]			Inventories		Ratios		All employees				
		Total (million dollars)	Structures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
3449	MISCELLANEOUS METALWORK.	20.5	5.2	15.3	211.8	204.8	91	78	19.5	178.8	362.2	980.4	26.2
345	SCREW MACHINE PROD., BOLTS, ETC. .	184.1	26.6	157.5	944.9	881.3	(NA)	(NA)	100.6	948.0	1 845.3	3 091.5	88.9
3451	SCREW MACHINE PRODUCTS	71.9	9.1	62.8	230.6	207.9	96	92	40.5	357.3	648.5	1 063.8	33.2
3452	BOLTS, NUTS, RIVETS, AND WASHERS . .	112.3	17.5	94.8	714.3	673.3	94	94	60.1	590.7	1 196.8	2 027.6	55.7
346	METAL FORGINGS AND STAMPINGS . . .	604.4	78.9	525.6	2 361.4	2 160.0	(NA)	(NA)	263.5	2 791.4	5 057.3	9 956.9	237.7
3462	IRON AND STEEL FORGINGS.	126.7	16.5	110.2	452.7	429.8	92	84	34.3	387.2	661.8	1 416.1	28.1
3463	NONFERROUS FORGINGS.	13.7	3.6	10.1	123.8	101.1	87	67	5.8	63.7	104.0	222.5	7.0
3465	AUTOMOTIVE STAMPINGS	292.2	25.1	267.1	948.3	872.8	92	91	123.3	1 485.4	2 663.8	5 286.0	117.5
3466	CROWNS AND CLOSURES.	17.1	2.0	15.1	121.0	99.2	95	86	8.1	74.1	166.7	343.5	8.3
3469	METAL STAMPINGS, NEC	154.7	31.6	123.0	715.7	657.2	88	88	92.0	781.0	1 461.0	2 688.8	76.7
347	METAL SERVICES, NEC.	121.1	22.2	98.8	287.2	251.6	(NA)	(NA)	82.1	624.2	1 120.3	1 736.3	64.2
3471	PLATING AND POLISHING.	73.2	14.7	58.4	128.3	112.5	(8)	(8)	54.6	403.1	741.2	1 034.5	40.2
3479	METAL COATING AND ALLIED SERVICES. .	47.9	7.5	40.4	159.0	139.2	(8)	(8)	27.6	221.1	379.2	701.8	24.0
348	ORDNANCE AND ACCESSORIES, NEC. . .	82.5	15.0	67.5	518.8	462.1	(NA)	(NA)	109.5	1 015.3	1 476.0	2 787.0	61.6
3482	SMALL ARMS AMMUNITION.	42.9	5.7	37.1	117.6	121.9	95	90	13.9	129.3	228.6	438.0	10.8
3483	AMMUNITION, EXC. SMALL ARMS, NEC . .	9.2	2.0	7.2	58.3	62.7	83	76	54.9	479.1	624.1	1 477.9	24.5
3484	SMALL ARMS	20.5	6.1	14.4	166.7	153.5	94	99	16.1	152.1	278.6	393.5	11.3
3489	ORDNANCE AND ACCESSORIES NEC	10.1	1.3	8.8	176.2	123.9	81	68	24.6	254.8	344.7	477.7	15.0
349	MISC. FABRICATED METAL PRODUCTS. .	452.0	93.0	359.1	3 080.9	2 847.1	(NA)	(NA)	244.3	2 141.7	4 283.0	7 784.8	212.2
3493	STEEL SPRINGS, EXCEPT WIRE	14.1	2.4	11.7	81.6	73.7	84	72	8.5	79.9	149.7	331.4	6.6
3494	VALVES AND PIPE FITTINGS	201.2	42.5	158.7	1 508.2	1 374.8	89	88	94.3	879.9	1 751.2	2 956.9	79.0
3495	WIRE SPRINGS	27.6	4.5	23.1	104.5	105.9	92	92	23.7	193.2	340.7	611.9	12.9
3496	MISC. FABRICATED WIRE PRODUCTS . . .	47.3	10.6	36.6	252.8	233.6	91	37	33.2	261.4	504.4	959.7	28.9
3497	METAL FOIL AND LEAF.	16.1	1.8	14.3	141.1	124.6	80	63	5.4	51.9	126.5	282.0	8.2
3498	FABRICATED PIPE AND FITTINGS	51.0	12.7	38.3	418.4	395.3	94	93	17.5	164.7	363.1	704.4	14.7
3499	FABRICATED METAL PRODUCTS, NEC . . .	94.8	18.5	76.3	574.3	539.2	89	83	61.8	510.7	1 047.4	1 938.6	61.8
35	MACHINERY, EXCEPT ELECTRICAL . .	4 402.4	948.7	3 453.7	27 170.9	25 153.3	(NA)	(NA)	1 827.7	18 523.3	37 562.9	65 820.7	1 906.3
351	ENGINES AND TURBINES	329.9	44.5	285.4	2 169.6	1 909.0	(NA)	(NA)	116.0	1 320.3	2 899.5	5 507.4	185.5
3511	TURBINES, TURBINE GENERATOR SETS . .	44.1	5.4	38.8	827.6	775.5	92	82	46.2	548.9	1 225.3	2 189.0	93.5
3519	INTERNAL COMBUSTION ENGINES, NEC . .	285.8	39.1	246.7	1 342.0	1 133.5	91	88	69.9	771.4	1 674.2	3 318.4	92.0
352	FARM AND GARDEN MACHINERY.	370.5	75.4	295.1	2 464.1	2 441.7	(NA)	(NA)	125.3	1 211.2	2 701.2	5 590.4	163.6
3523	FARM MACHINERY AND EQUIPMENT	341.9	70.5	271.3	2 083.4	2 088.8	92	95	104.6	1 045.7	2 248.0	4 531.4	116.0
3524	LAWN AND GARDEN EQUIPMENT.	28.6	4.9	23.8	380.7	352.9	92	82	20.7	165.5	453.2	1 059.1	47.6
353	CONSTRUCTION, RELATED MACHINERY. .	932.4	268.4	664.0	6 156.5	6 095.7	(NA)	(NA)	275.4	2 855.7	5 962.2	11 089.5	282.1
3531	CONSTRUCTION MACHINERY	498.3	151.4	346.8	3 142.3	3 171.8	91	95	133.8	1 460.2	3 130.7	6 091.0	159.5
3532	MINING MACHINERY	67.0	23.8	43.2	646.1	603.7	88	86	21.3	197.6	393.2	771.2	13.4
3533	OILFIELD MACHINERY	257.5	67.9	189.7	1 212.5	1 216.0	88	95	35.9	357.5	788.6	1 213.0	54.7
3534	ELEVATORS AND MOVING STAIRWAYS . . .	8.8	1.8	7.1	119.1	123.0	96	93	15.0	144.5	310.2	483.6	7.8
3535	CONVEYORS AND CONVEYING EQUIPMENT. .	34.7	9.0	25.7	363.8	329.9	90	87	27.2	275.5	540.1	968.0	13.2
3536	HOISTS, CRANES, AND MONORAILS. . . .	17.9	4.5	13.3	203.6	196.6	87	76	16.3	160.9	274.7	527.3	13.8
3537	INDUSTRIAL TRUCKS AND TRACTORS . . .	48.3	10.0	38.3	469.1	454.7	94	95	25.8	259.5	524.7	1 035.4	19.7
354	METALWORKING MACHINERY	438.6	79.1	359.5	2 848.1	2 510.1	(NA)	(NA)	268.1	2 858.6	4 901.7	7 267.0	218.8
3541	MACHINE TOOLS, METAL-CUTTING	82.2	15.4	66.8	878.4	741.5	87	92	52.5	573.8	901.7	1 418.1	35.2
3542	MACHINE TOOLS, METAL-FORMING	24.7	3.2	21.5	359.6	317.2	90	87	24.1	265.4	417.7	696.3	17.5
3544	SPECIAL DIES, TOOLS, JIGS, ETC . . .	175.7	29.3	146.4	449.9	378.6	94	79	97.8	1 113.8	1 797.4	2 423.7	97.0
3545	MACHINE TOOL ACCESSORIES	77.2	13.8	63.4	468.5	413.3	89	88	46.7	456.6	876.1	1 243.4	30.2
3546	POWER DRIVEN HANDTOOLS	39.0	7.4	31.6	326.0	311.4	91	90	23.1	202.3	434.5	730.5	20.3
3547	ROLLING MILL MACHINERY	9.1	.6	8.4	131.8	154.5	78	86	10.4	115.2	206.4	327.8	6.3
3549	METALWORKING MACHINERY, NEC.	30.7	9.3	21.5	233.8	193.7	88	82	13.6	131.5	267.9	427.3	12.3
355	SPECIAL INDUSTRY MACHINERY	243.6	58.4	185.2	2 309.2	2 172.4	(NA)	(NA)	190.1	1 853.9	3 731.9	6 207.2	160.0
3551	FOOD PRODUCTS MACHINERY.	46.9	9.0	37.9	499.4	453.4	90	92	31.9	315.9	605.2	1 000.1	21.8
3552	TEXTILE MACHINERY.	32.2	7.9	24.3	233.5	256.7	93	94	32.7	271.0	487.9	823.7	27.6
3553	WOODWORKING MACHINERY.	13.8	3.0	10.8	111.6	100.6	94	95	13.7	123.9	285.1	495.2	12.4
3554	PAPER INDUSTRIES MACHINERY	17.2	4.5	12.6	220.2	225.0	84	90	15.3	159.0	254.0	447.8	8.3
3555	PRINTING TRADES MACHINERY.	46.8	14.0	32.7	355.4	316.7	97	92	23.9	249.4	503.6	823.5	16.1
3559	SPECIAL INDUSTRY MACHINERY, NEC. . .	86.8	20.0	66.8	889.2	820.0	88	85	72.6	734.7	1 596.1	2 616.9	73.8
356	GENERAL INDUSTRIAL MACHINERY . . .	552.7	116.8	435.9	4 013.9	3 698.0	(NA)	(NA)	262.0	2 585.4	5 019.7	8 433.7	232.1
3561	PUMPS AND PUMPING EQUIPMENT.	123.5	26.0	97.5	1 024.0	925.1	88	88	55.5	532.9	1 095.6	1 917.3	56.9
3562	BALL AND ROLLER BEARINGS	132.9	21.6	111.3	621.7	569.0	96	98	50.9	525.5	931.3	1 530.5	51.3
3563	AIR AND GAS COMPRESSORS.	55.8	10.8	45.0	610.9	589.0	88	89	22.9	226.6	467.5	858.4	15.3
3564	BLOWERS AND FANS	37.5	11.2	26.3	242.9	232.6	89	87	23.5	216.1	468.8	805.3	22.2
3565	INDUSTRIAL PATTERNS.	11.1	2.1	9.0	25.2	20.6	97	75	8.5	103.1	161.0	198.0	5.3
3566	SPEED CHANGERS, DRIVES, AND GEARS. .	48.5	11.6	36.9	297.8	283.6	87	84	22.5	224.2	409.0	632.7	21.8
3567	INDUSTRIAL FURNACES AND OVENS. . . .	13.4	2.6	10.8	151.4	118.1	91	90	13.6	138.5	244.3	443.2	7.5
3568	POWER TRANSMISSION EQUIPMENT, NEC. .	50.3	8.1	42.3	418.8	381.8	82	74	27.7	266.5	544.4	876.4	20.4
3569	GENERAL INDUSTRIAL MACHINERY, NEC. .	79.6	22.8	56.8	621.2	578.2	88	86	37.0	351.8	697.7	1 171.9	31.3
357	OFFICE AND COMPUTING MACHINES. . .	826.1	166.1	660.1	3 887.3	3 331.9	(NA)	(NA)	208.4	2 277.3	4 904.5	8 604.9	287.0
3573	ELECTRONIC COMPUTING EQUIPMENT . . .	651.5	107.3	544.2	3 007.9	2 526.0	94	91	144.8	1 668.3	3 497.6	6 471.2	212.8
3574	CALCULATING, ACCOUNTING MACHINES . .	56.3	26.2	30.2	218.2	222.0	84	77	22.5	207.2	407.0	637.1	19.0
3576	SCALES, BALANCES, EXC. LABORATORY. .	6.8	1.5	5.4	85.7	79.6	96	99	6.7	59.3	129.7	200.4	5.7
3579	OFFICE MACHINES, TYPEWRITERS, ETC. .	111.5	31.1	80.4	575.3	504.2	76	91	34.5	342.5	870.1	1 296.2	49.6
358	REFRIGERATION AND SERVICE MACH . .	287.9	55.1	232.8	2 259.5	2 054.1	(NA)	(NA)	197.9	1 863.9	4 426.7	8 711.0	228.2
3581	AUTOMATIC MERCHANDISING MACHINES . .	7.9	1.6	6.3	109.6	83.2	94	93	10.5	83.6	183.4	324.4	5.6
3582	COMMERCIAL LAUNDRY EQUIPMENT	2.2	.4	1.9	53.5	49.1	90	81	4.8	42.2	88.2	157.0	1.2
3585	REFRIGERATION, HEATING EQUIPMENT . .	233.0	42.2	190.8	1 632.7	1 507.9	89	95	150.8	1 442.1	3 517.4	7 083.5	201.2
3586	MEASURING AND DISPENSING PUMPS . . .	6.2	1.1	5.2	97.9	89.5	61	82	7.2	67.3	134.1	232.3	4.5
3589	SERVICE INDUSTRY MACHINERY, NEC. . .	38.5	9.8	28.7	365.9	324.4	91	90	24.4	228.8	503.6	913.8	15.7
359	MISC. MACHINERY, EXC. ELEC	420.8	85.1	335.7	1 062.6	940.4	(NA)	(NA)	184.4	1 697.0	3 015.5	4 409.5	149.2
3592	CARBURETORS, PISTONS, RINGS, ETC . .	79.9	16.7	63.3	240.0	202.7	82	87	26.7	272.3	500.0	744.3	27.1
3599	MACHINERY, EXCEPT ELECTRICAL, NEC. .	340.9	68.4	272.5	822.7	737.6	96	94	157.8	1 424.7	2 515.5	3 665.2	122.2

See footnotes at end of table.

Table 4. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977									
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
36	ELECTRIC, ELECTRONIC EQUIP . . .	12 554	14 973	6 338	1 723.1	22 544.2	1 191.4	2 309.2	12 951.6	50 365.7	88 433.1
361	ELECTRIC DISTRIBUTING EQUIPMENT. .	753	947	459	115.3	1 431.3	84.9	162.3	909.9	3 335.9	5 771.7
3612	TRANSFORMERS	229	279	143	43.3	529.6	32.8	62.5	349.8	1 170.0	2 209.1
3613	SWITCHGEAR, SWITCHBOARD APPARATUS. .	542	668	316	72.0	901.7	52.1	99.9	560.1	2 165.9	3 562.6
362	ELECTRICAL INDUSTRIAL APPARATUS. .	1 407	1 646	819	198.4	2 542.6	142.0	278.8	1 572.1	5 614.2	9 591.4
3621	MOTORS AND GENERATORS.	343	447	299	96.9	1 177.6	74.2	145.8	802.6	2 609.8	4 462.7
3622	INDUSTRIAL CONTROLS.	676	726	283	55.4	726.6	35.3	69.0	380.1	1 602.2	2 511.4
3623	WELDING APPARATUS, ELECTRIC. . . .	160	176	87	17.5	285.7	11.3	23.0	165.1	582.7	1 189.6
3624	CARBON AND GRAPHITE PRODUCTS . . .	58	74	48	12.1	164.1	9.0	17.7	110.9	408.4	735.2
3629	ELEC. INDUSTRIAL APPARATUS, NEC. . .	213	223	102	16.5	188.6	12.2	23.4	113.4	411.0	692.4
363	HOUSEHOLD APPLIANCES	528	666	342	162.3	1 898.1	128.7	243.1	1 352.1	5 276.2	10 736.5
3631	HOUSEHOLD COOKING EQUIPMENT. . . .	84	96	58	25.4	289.1	19.1	36.8	197.9	[9]784.1	[9]1 707.2
3632	HOUSEHOLD REFRIGERATORS, FREEZERS. .	33	42	25	35.8	468.6	29.8	56.9	358.0	1 166.1	2 576.6
3633	HOUSEHOLD LAUNDRY EQUIPMENT. . . .	21	31	24	19.4	262.4	15.9	29.4	202.4	844.7	1 792.8
3634	ELECTRIC HOUSEWARES AND FANS . . .	239	291	148	47.3	458.7	37.6	71.4	305.0	1 365.7	2 531.2
3635	HOUSEHOLD VACUUM CLEANERS.	32	35	22	10.4	116.6	7.3	12.9	78.9	378.8	639.9
3636	SEWING MACHINES.	86	91	25	8.2	107.0	6.1	10.6	66.8	208.9	304.9
3639	HOUSEHOLD APPLIANCES, NEC.	65	80	40	15.7	195.6	12.8	25.1	143.2	527.9	1 184.0
364	ELEC. LIGHTING, WIRING EQUIP . . .	1 762	2 009	913	165.0	1 925.4	127.2	244.6	1 292.1	4 741.2	8 357.0
3641	ELECTRIC LAMPS	128	167	64	28.7	322.4	25.3	47.5	266.3	1 089.2	1 651.4
3643	CURRENT-CARRYING WIRING DEVICES. .	361	413	198	43.9	480.3	33.6	66.2	312.1	1 100.1	1 795.2
3644	NONCURRENT-CARRYING WIR'G DEVICES. .	174	202	123	25.8	330.1	18.4	35.9	210.9	744.4	1 421.8
3645	RESIDENTIAL LIGHTING FIXTURES. . . .	675	710	244	23.7	229.5	18.2	33.4	139.4	494.2	986.6
3646	COMMERCIAL LIGHTING FIXTURES	192	218	122	15.6	169.1	11.1	20.6	98.8	434.7	922.7
3647	VEHICULAR LIGHTING EQUIPMENT	70	75	43	14.5	246.0	11.4	23.3	178.8	536.0	908.5
3648	LIGHTING EQUIPMENT, NEC.	211	224	119	12.8	148.0	9.1	17.7	85.8	342.6	671.0
365	RADIO, TV RECEIVING EQUIPMENT. . .	1 223	1 290	325	97.7	1 097.0	75.4	143.8	740.0	3 078.1	6 913.2
3651	RADIO AND TV RECEIVING SETS. . . .	546	581	192	74.6	852.4	57.6	106.6	570.0	2 350.9	5 731.6
3652	PHONO. RECORDS, PRERECORDED TAPE . .	679	709	133	23.1	244.6	17.8	37.2	170.0	727.3	1 181.7
366	COMMUNICATION EQUIPMENT.	2 068	2 385	1 126	458.5	6 995.0	259.6	499.5	3 226.2	14 130.0	22 744.2
3661	TELEPHONE AND TELEGRAPH APPARATUS. .	208	264	154	124.4	1 818.0	87.1	164.2	1 125.9	4 192.0	7 858.3
3662	RADIO AND TV COMMUNICATION EQUIP . .	1 873	2 121	972	334.1	5 177.0	172.4	335.2	2 100.3	9 938.0	14 886.0
367	ELECTRONIC COMPONENTS, ACCESS. . .	4 019	4 455	1 671	373.5	4 556.5	257.9	508.7	2 457.4	9 259.6	15 389.6
3671	ELECTRON TUBES, RECEIVING TYPE . . .	125	146	60	36.7	514.1	27.5	53.7	324.5	909.6	1 581.7
3674	SEMICONDUCTORS, RELATED DEVICES. . .	499	545	219	114.0	1 601.1	63.5	126.5	670.3	3 414.0	5 327.1
3675	ELECTRONIC CAPACITORS.	86	118	97	28.9	260.5	23.4	45.7	179.0	486.1	742.3
3676	ELECTRONIC RESISTORS	77	101	80	21.3	210.9	15.9	32.4	130.6	401.0	578.3
3677	ELECTRONIC COILS AND TRANSFORMERS. .	276	294	194	20.7	166.6	17.1	31.8	113.1	289.1	506.4
3678	ELECTRONIC CONNECTORS.	106	133	107	26.0	303.6	19.1	37.6	185.1	754.2	1 104.6
3679	ELECTRONIC COMPONENTS, NEC	3 005	3 118	914	125.9	1 499.7	91.4	181.0	854.7	3 005.7	5 549.2
369	MISC. ELEC. EQUIPMENT, SUPPLIES. .	1 340	1 575	683	152.4	2 098.3	115.7	228.4	1 401.8	4 930.4	8 929.5
3691	STORAGE BATTERIES.	134	218	134	25.9	358.7	21.1	43.4	276.4	927.8	1 982.5
3692	PRIMARY BATTERIES, DRY AND WET . . .	41	58	33	11.0	118.2	9.0	18.0	87.4	343.2	666.1
3693	X-RAY APPARATUS AND TUBES.	212	243	126	30.9	467.6	17.1	33.3	195.5	1 231.9	1 884.7
3694	ENGINE ELECTRICAL EQUIPMENT. . . .	372	409	181	63.8	948.4	51.8	102.6	708.6	2 041.3	3 647.2
3699	ELECTRICAL EQUIP., SUPPLIES, NEC . .	612	647	209	20.7	205.3	16.7	31.1	133.9	386.2	749.0
37	TRANSPORTATION EQUIPMENT	8 934	10 176	3 653	1 768.2	30 673.5	1 284.4	2 612.7	20 314.3	64 291.1	166 954.0
371	MOTOR VEHICLES AND EQUIPMENT . . .	3 591	4 234	1 708	876.3	16 037.7	727.6	1 524.2	12 682.4	37 023.1	117 746.5
3711	MOTOR VEHICLES AND CAR BODIES. . . .	254	322	119	343.6	7 077.6	289.9	620.4	5 724.9	18 723.7	76 517.8
3713	TRUCK AND BUS BODIES	770	820	313	34.8	428.6	27.4	53.9	307.6	946.3	2 003.3
3714	MOTOR VEHICLE PARTS, ACCESSORIES . .	2 194	2 623	997	450.7	8 004.0	372.5	777.2	6 284.9	16 263.8	35 750.8
3715	TRUCK TRAILERS	316	353	165	28.1	322.0	22.5	43.1	229.9	645.9	1 910.1
3716	MOTOR HOMES.	80	116	114	19.2	205.4	15.4	29.6	135.1	443.3	1 564.5
372	AIRCRAFT AND PARTS	1 027	1 173	549	430.8	7 620.5	240.1	475.0	3 563.5	14 731.7	25 867.1
3721	AIRCRAFT	151	176	74	222.7	3 975.9	119.0	232.7	1 765.2	8 134.1	14 834.2
3724	AIRCRAFT ENGINES AND ENGINE PARTS. .	226	269	177	106.1	1 939.4	62.4	128.7	970.0	3 599.1	6 272.3
3728	AIRCRAFT EQUIPMENT, NEC.	681	728	298	102.0	1 705.2	58.7	113.7	828.3	2 998.4	4 760.6
373	SHIP, BOAT BUILDING, REPAIRING . .	2 692	2 795	736	220.2	2 939.8	175.5	345.6	2 132.1	4 681.4	8 317.8
3731	SHIP BUILDING AND REPAIRING. . . .	542	605	314	176.4	2 494.0	139.9	277.2	1 807.4	3 825.0	6 495.1
3732	BOAT BUILDING AND REPAIRING. . . .	2 148	2 190	422	43.8	445.8	35.6	68.4	324.7	856.3	1 822.6
3743	RAILROAD EQUIPMENT	145	201	118	56.3	888.6	42.6	79.4	619.9	1 882.8	4 278.3
3751	MOTORCYCLES, BICYCLES, AND PARTS . .	343	350	63	15.6	168.9	13.3	24.6	129.9	369.8	1 007.6
376	GUIDED MISSILES, SPACE VEHICLES. .	74	109	86	119.8	2 427.3	46.2	90.2	770.6	4 421.9	6 599.3
3761	GUIDED MISSILES, SPACE VEHICLES. . .	20	40	37	94.0	1 931.5	35.2	67.0	603.8	[2]3 564.8	[2]5 314.4
3764	SPACE PROPULSION UNITS AND PARTS . .	18	25	24	18.6	356.6	7.1	14.9	111.5	620.7	945.5
3769	SPACE VEHICLE EQUIPMENT, NEC	41	42	25	7.2	139.2	3.9	8.3	55.3	236.3	339.4
379	MISC. TRANSPORTATION EQUIPMENT . .	1 206	1 314	393	49.1	590.7	39.1	73.8	415.9	1 180.5	3 137.5
3792	TRAVEL TRAILERS AND CAMPERS. . . .	775	861	266	26.3	275.7	21.8	40.7	197.1	510.3	1 582.4
3795	TANKS AND TANK COMPONENTS.	20	24	18	12.4	208.5	10.0	19.8	156.2	437.6	934.2
3799	TRANSPORTATION EQUIPMENT, NEC. . . .	408	429	109	10.3	106.6	7.4	13.3	62.6	232.7	620.9
38	INSTRUMENTS, RELATED PRODUCTS. .	6 616	7 481	2 538	559.1	7 520.4	347.2	677.9	3 743.2	18 762.0	28 897.8
3811	ENGINEERING, SCIENTIFIC INSTRU . . .	740	786	279	42.3	584.4	24.7	48.7	280.7	1 287.2	1 926.7
382	MEASURING, CONTROLLING DEVICES . .	1 847	2 079	849	200.1	2 665.8	121.4	237.6	1 288.4	5 242.3	7 910.3
3822	ENVIRONMENTAL CONTROLS	182	201	91	39.0	450.3	30.6	57.9	315.6	859.6	1 358.7
3823	PROCESS CONTROL INSTRUMENTS. . . .	383	426	207	46.5	664.8	23.4	47.0	265.9	1 399.4	2 022.0
3824	FLUID METERS AND COUNTING DEVICES. .	100	111	62	15.9	197.6	11.2	22.5	118.0	429.0	650.4
3825	INSTRU. TO MEASURE ELECTRICITY . . .	622	671	279	66.5	889.1	40.4	78.3	414.5	1 807.7	2 761.0
3829	MEASUR'G, CONTROL'G DEVICES, NEC . .	649	670	210	32.3	464.0	15.8	31.8	174.5	746.6	1 118.1

See footnotes at end of table.

Table 4. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**—Con.

Code	Industry group and industry	1977--Continued							1972				
		New capital expenditures[4]			Inventories		Ratios		All employees				
		Total (million dollars)	Structures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
36	ELECTRIC, ELECTRONIC EQUIP . . .	2 866.5	519.9	2 346.6	16 058.7	14 273.0	(NA)	(NA)	1 661.1	15 189.0	30 578.5	53 394.3	1 417.5
361	ELECTRIC DISTRIBUTING EQUIPMENT. .	141.2	24.7	116.5	1 039.6	944.2	(NA)	(NA)	116.0	1 040.0	2 060.3	3 585.4	63.7
3612	TRANSFORMERS	67.2	8.7	58.5	385.8	344.1	95	97	46.8	420.2	757.3	1 461.9	26.8
3613	SWITCHGEAR, SWITCHBOARD APPARATUS. .	73.9	16.0	58.0	653.8	600.1	91	91	69.2	619.8	1 303.0	2 123.5	36.9
362	ELECTRICAL INDUSTRIAL APPARATUS. .	311.0	64.5	246.5	2 002.1	1 791.4	(NA)	(NA)	188.0	1 665.1	3 217.9	5 402.3	148.3
3621	MOTORS AND GENERATORS.	162.6	28.7	133.8	771.4	678.0	92	80	90.3	764.4	1 475.2	2 501.7	58.9
3622	INDUSTRIAL CONTROLS.	57.5	12.8	44.7	616.1	563.9	87	86	51.1	465.6	908.4	1 424.1	46.8
3623	WELDING APPARATUS, ELECTRIC. . . .	38.7	14.5	24.1	258.8	226.2	86	94	15.5	173.9	353.5	659.6	11.4
3624	CARBON AND GRAPHITE PRODUCTS . . .	35.4	4.6	30.8	215.9	200.0	94	93	11.3	99.6	217.4	377.4	20.2
3629	ELEC. INDUSTRIAL APPARATUS, NEC. . .	16.8	3.8	13.0	140.0	123.3	87	81	20.2	165.0	270.0	449.4	11.2
363	HOUSEHOLD APPLIANCES	207.0	42.4	164.6	1 674.7	1 524.3	(NA)	(NA)	163.0	1 369.2	3 563.7	6 940.3	151.8
3631	HOUSEHOLD COOKING EQUIPMENT. . . .	36.1	8.9	27.1	303.8	283.7	92	80	23.3	205.7	412.0	939.8	25.5
3632	HOUSEHOLD REERIGERATORS, FREEZERS. .	46.9	10.7	36.2	399.1	352.1	77	98	34.1	305.3	790.8	1 719.7	25.5
3633	HOUSEHOLO LAUNDRY EQUIPMENT. . . .	27.3	7.6	19.7	170.6	162.1	87	90	23.6	223.1	684.7	1 356.5	31.0
3634	ELECTRIC HOUSEWARES AND FANS . . .	47.8	8.3	39.5	429.5	409.2	87	90	51.3	357.5	909.2	1 613.3	32.6
3635	HOUSEHOLD VACUUM CLEANERS.	16.2	.7	15.5	85.2	81.0	(D)	81	11.2	98.7	299.5	467.7	9.7
3636	SEWING MACHINES.	8.1	.8	7.2	122.3	103.6	(O)	(D)	5.3	54.6	124.6	159.6	9.3
3639	HOUSEHOLD APPLIANCES, NEC.	24.6	5.4	19.2	164.2	132.6	93	79	14.0	123.5	341.4	681.9	18.3
364	ELEC. LIGHTING, WIRING EQUIP . . .	217.1	36.9	180.3	1 414.7	1 267.1	(NA)	(NA)	177.1	1 415.7	3 276.8	5 650.8	159.7
3641	ELECTRIC LAMPS	36.6	5.9	30.7	121.4	104.3	97	98	31.5	239.7	724.4	1 095.7	31.1
3643	CURRENT-CARRYING WIRING OEVICES. . .	55.8	10.3	45.5	341.5	284.7	84	79	50.4	382.5	792.1	1 255.9	53.7
3644	NONCURRENT-CARRYING WIR'G DEVICES. .	32.8	9.4	23.4	350.5	335.3	82	83	25.7	217.0	490.8	886.4	25.2
3645	RESIDENTIAL LIGHTING FIXTURES. . . .	11.8	2.6	9.2	193.2	183.1	95	92	26.5	189.3	390.2	767.2	13.7
3646	COMMERCIAL LIGHTING FIXTURES	18.0	3.5	14.6	182.3	162.5	90	86	18.8	148.3	350.4	718.7	13.7
3647	VEHICULAR LIGHTING EQUIPMENT	46.3	2.5	43.8	97.1	78.2	68	94	13.6	142.1	299.8	499.8	7.2
3648	LIGHTING EQUIPMENT, NEC.	15.8	2.8	13.0	128.6	118.8	85	81	12.7	107.9	254.3	466.5	16.6
365	RADIO, TV RECEIVING EQUIPMENT. . .	135.7	31.4	104.3	956.2	903.6	(NA)	(NA)	106.9	797.9	2 183.4	5 007.8	75.5
3651	RAOIO ANO TV RECEIVING SETS.	105.8	26.4	79.4	835.0	794.8	94	98	86.5	651.4	1 807.8	4 440.1	58.6
3652	PHONO. RECORDS, PRERECORDED TAPE . .	29.8	5.0	24.8	121.3	108.8	99	99	20.3	146.5	375.6	567.7	16.9
366	COMMUNICATION EQUIPMENT.	688.7	118.5	570.2	4 662.0	4 110.5	(NA)	(NA)	453.6	4 912.1	8 453.1	13 665.0	381.4
3661	TELEPHONE AND TELEGRAPH APPARATUS. .	217.3	17.1	200.2	1 503.3	1 220.2	94	97	134.4	1 323.0	2 650.1	4 524.7	169.2
3662	RADIO AND TV COMMUNICATION EQUIP . .	471.4	101.4	370.0	3 158.7	2 890.3	92	92	319.2	3 589.1	5 803.1	9 140.2	212.2
367	ELECTRONIC COMPONENTS, ACCESS. . .	782.6	126.3	656.3	2 773.3	2 445.6	(NA)	(NA)	335.8	2 869.3	5 305.8	8 825.9	344.4
3671	ELECTRON TUBES, RECEIVING TYPE . . .	52.6	15.2	37.4	254.7	231.1	78	93	11.4	87.7	173.8	230.4	1.8
3674	SEMICONDUCTORS, RELATED DEVICES. . .	409.0	60.8	348.2	909.5	819.3	93	94	97.6	953.1	1 735.1	2 704.8	170.5
3675	ELECTRONIC CAPACITORS.	34.0	6.7	27.3	152.4	135.8	92	91	27.6	169.2	298.6	445.8	13.4
3676	ELECTRONIC RESISTORS	25.1	2.7	22.4	104.2	93.7	87	81	20.5	144.5	263.5	372.2	10.4
3677	ELECTRONIC COILS AND TRANSFORMERS. .	9.2	2.1	7.1	74.5	73.2	91	75	24.2	147.8	228.7	377.8	9.9
3678	ELECTRONIC CONNECTORS.	40.4	3.9	36.6	234.5	204.5	78	86	18.1	141.2	345.6	483.3	12.2
3679	ELECTRONIC COMPONENTS, NEC	212.3	34.9	177.4	1 043.4	888.0	79	74	100.5	846.4	1 577.2	3 046.6	86.1
369	MISC. ELEC. EQUIPMENT, SUPPLIES. .	383.2	75.3	308.0	1 536.1	1 286.3	(NA)	(NA)	120.4	1 121.4	2 497.6	4 315.0	93.5
3691	STORAGE BATTERIES.	122.2	31.6	90.7	292.9	239.4	97	99	22.1	209.3	477.8	968.6	30.8
3692	PRIMARY BATTERIES, DRY AND WET . . .	35.4	5.8	29.6	100.1	90.2	96	97	8.4	64.6	221.6	348.1	7.2
3693	X-RAY APPARATUS AND TUBES.	63.4	13.1	50.3	542.3	412.6	98	92	12.1	120.9	311.3	443.7	8.1
3694	ENGINE ELECTRICAL EQUIPMENT. . . .	146.0	21.6	124.3	488.3	442.1	81	89	57.9	591.3	1 212.6	2 035.0	30.8
3699	ELECTRICAL EQUIP., SUPPLIES, NEC . .	16.2	3.1	13.1	112.4	102.1	94	77	19.3	130.0	263.9	501.8	16.0
37	TRANSPORTATION EQUIPMENT	4 670.9	695.6	3 975.3	22 240.5	20 745.1	(NA)	(NA)	1 719.0	19 880.0	39 799.4	94 704.9	2 660.2
371	MOTOR VEHICLES AND EQUIPMENT . . .	3 636.1	455.0	3 181.2	9 062.6	7 826.8	(NA)	(NA)	807.5	9 460.5	22 056.2	63 921.4	2 093.2
3711	MOTOR VEHICLES AND CAR BOOIES. . . .	1 706.1	229.1	1 477.1	4 010.8	3 325.8	95	99	339.2	4 299.5	11 782.5	42 905.6	917.2
3713	TRUCK AND BUS BOOIES	44.2	11.2	33.0	352.1	306.0	94	93	42.6	353.8	659.7	1 564.4	48.3
3714	MOTOR VEHICLE PARTS, ACCESSORIES . .	1 833.2	189.9	1 643.3	4 124.1	3 699.6	94	87	400.9	4 601.5	9 164.7	18 333.5	1 113.1
3715	TRUCK TRAILERS	36.2	15.8	20.3	355.0	283.0	94	96	24.7	205.6	449.3	1 117.9	14.6
3716	MOTOR HOMES.	16.4	8.9	7.5	220.6	212.5	92	94	-	-	-	-	-
372	AIRCRAFT AND PARTS	508.3	89.8	418.5	9 301.8	9 166.0	(NA)	(NA)	438.7	5 281.7	9 123.6	15 451.4	169.0
3721	AIRCRAET	202.4	40.2	162.2	6 618.5	6 550.7	83	98	231.8	2 867.1	5 083.0	8 779.3	57.1
3724	AIRCRAFT ENGINES AND ENGINE PARTS. .	174.9	25.4	149.5	1 440.2	1 360.2	81	95	104.7	1 256.6	1 991.7	3 640.2	73.0
3728	AIRCRAFT EQUIPMENT, NEC.	131.1	24.3	106.8	1 243.1	1 255.2	72	57	102.2	1 158.1	2 048.9	3 031.9	38.9
373	SHIP, BOAT BUILDING, REPAIRING . .	203.6	82.7	120.9	1 410.6	1 404.9	(NA)	(NA)	185.2	1 703.6	2 398.2	4 329.2	179.1
3731	SHIP BUILDING AND REPAIRING. . . .	161.3	68.0	93.3	1 072.5	1 098.5	97	99	144.6	1 422.3	1 881.3	3 281.0	142.0
3732	BOAT BUILDING AND REPAIRING. . . .	42.3	14.7	27.6	338.0	306.3	98	96	40.6	281.3	516.8	1 048.2	37.2
3743	RAILROAD EQUIPMENT	80.4	16.6	63.8	850.6	822.8	91	94	50.8	529.1	1 113.3	2 446.2	55.3
3751	MOTORCYCLES, BICYCLES, AND PARTS . .	24.1	6.0	18.1	226.5	182.1	84	97	17.6	139.6	315.2	659.5	16.0
376	GUIDED MISSILES, SPACE VEHICLES. .	164.2	27.7	136.5	797.6	850.9	(NA)	(NA)	160.0	2 317.1	3 969.2	5 628.2	92.3
3761	GUIDED MISSILES, SPACE VEHICLES. . .	125.6	21.8	103.8	600.2	653.0	87	91	118.4	1 751.5	2 948.7	4 123.7	62.9
3764	SPACE PROPULSION UNITS AND PARTS . .	25.3	5.0	20.3	167.5	175.8	92	88	20.8	276.2	506.6	716.3	18.4
3769	SPACE VEHICLE EQUIPMENT, NEC	13.3	.8	12.5	29.8	22.1	85	(D)	20.9	289.3	513.9	788.2	11.0
379	MISC. TRANSPORTATION EQUIPMENT . .	54.1	17.7	36.4	590.8	492.4	(NA)	(NA)	59.1	448.4	823.7	2 268.9	55.2
3792	TRAVEL TRAILERS ANO CAMPERS.	31.0	12.4	18.6	193.6	196.0	88	90	37.1	266.3	479.9	1 342.2	35.2
3795	TANKS AND TANK COMPONENTS.	13.2	3.2	10.0	287.8	187.9	92	82	5.9	65.0	111.7	272.2	3.1
3799	TRANSPORTATION EQUIPMENT, NEC. . . .	9.8	2.2	7.7	109.4	108.5	94	79	16.1	117.2	232.1	654.6	16.9
38	INSTRUMENTS, RELATED PRODUCTS. .	938.9	235.3	703.6	5 810.6	5 311.1	(NA)	(NA)	453.2	4 286.2	10 580.1	15 526.7	480.0
3811	ENGINEERING, SCIENTIFIC INSTRU . . .	57.4	13.2	44.2	470.1	421.4	(NA)	(NA)	-	-	-	-	-
382	MEASURING, CONTROLLING OEVICES . .	268.0	74.4	193.7	1 979.4	1 752.3	(NA)	(NA)	152.8	1 436.5	2 723.5	3 992.4	104.8
3822	ENVIRONMENTAL CONTROLS	47.7	11.0	36.7	285.9	250.7	80	92	30.7	253.6	511.8	728.1	17.1
3823	PROCESS CONTROL INSTRUMENTS. . . .	52.1	14.9	37.2	555.9	507.8	90	80	35.6	342.9	620.4	883.6	27.3
3824	FLUID METERS AND COUNTING DEVICES. .	19.9	4.9	15.0	148.8	136.7	80	80	8.8	76.8	180.9	296.2	7.0
3825	INSTRU. TO MEASURE ELECTRICITY . . .	99.1	28.8	70.3	668.9	580.1	90	89	54.7	523.5	1 046.8	1 540.8	39.3
3829	MEASURIG, CONTROL'G DEVICES, NEC . .	49.3	14.8	34.5	320.0	277.0	89	83	24.6	256.7	394.9	601.4	14.7

See footnotes at end of table.

Table 4. **Selected Statistics by Major Industry Group and Industry: 1977 and 1972**–Con.

Code	Industry group and industry	1977									
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)		
3832	OPTICAL INSTRUMENTS AND LENSES . . .	515	545	199	30.0	421.2	16.9	33.6	188.0	897.4	1 330.4
384	MEDICAL INSTRUMENTS, SUPPLIES. . .	2 058	2 355	679	113.5	1 318.8	76.8	149.2	711.8	3 261.9	5 217.0
3841	SURGICAL AND MEDICAL INSTRUMENTS . .	575	651	238	43.2	491.4	29.2	57.5	261.4	1 208.8	1 833.1
3842	SURGICAL APPLIANCES AND SUPPLIES . .	1 017	1 154	322	53.9	624.1	36.8	70.5	345.6	1 594.5	2 597.3
3843	DENTAL EQUIPMENT AND SUPPLIES. . . .	507	550	119	16.3	203.3	10.7	21.2	104.8	458.6	786.7
3851	OPHTHALMIC GOODS	593	634	155	30.0	314.1	21.7	43.1	188.4	656.2	971.8
3861	PHOTOGRAPHIC EQUIP. AND SUPPLIES . .	702	780	265	111.7	1 899.6	61.7	119.4	886.5	6 732.4	9 946.9
3873	WATCHES, CLOCKS, AND WATCHCASES. . .	283	302	112	31.5	316.6	24.0	46.3	199.4	684.5	1 594.7
39	MISC. MANUFACTURING INDUSTRIES. .	16 550	17 259	3 794	440.7	4 406.4	338.7	626.7	2 745.3	10 291.0	19 150.7
391	JEWELRY, SILVER AND PLATED WARE. .	3 053	3 118	564	61.3	637.6	44.3	81.2	372.8	1 448.5	3 249.3
3911	JEWELRY, PRECIOUS METAL.	2 165	2 206	405	42.1	432.0	29.2	53.3	241.4	979.8	2 107.0
3914	SILVERWARE AND PLATED WARE	247	258	67	10.8	119.8	8.3	15.7	80.2	255.1	457.0
3915	JEWELERS' MATS., LAPIDARY WORK . . .	650	654	92	8.3	85.9	6.8	12.2	51.3	213.6	685.2
3931	MUSICAL INSTRUMENTS.	400	450	127	25.2	252.7	20.6	38.2	178.2	488.2	924.9
394	TOYS AND SPORTING GOODS.	2 713	2 910	835	119.4	1 111.8	93.3	172.4	697.0	2 999.8	5 485.0
3942	DOLLS.	223	231	88	9.1	65.3	8.0	13.3	43.5	181.6	340.2
3944	GAMES, TOYS, CHILDREN'S VEHICLES . .	754	801	251	53.1	520.6	39.2	73.2	295.0	1 544.6	2 719.7
3949	SPORTING AND ATHLETIC GOODS, NEC . .	1 757	1 878	496	57.2	525.8	46.1	85.9	358.6	1 273.6	2 425.1
395	PENS, OFFICE AND ART GOODS	913	987	261	31.8	331.1	23.3	45.8	203.2	867.6	1 538.4
3951	PENS AND MECHNICAL PENCILS	133	141	78	13.2	135.6	10.4	20.6	92.9	419.8	669.8
3952	LEAD PENCILS AND ART GOODS	127	134	46	6.6	63.1	4.7	9.2	37.6	145.5	275.9
3953	MARKING DEVICES.	583	612	86	7.4	78.7	4.7	9.1	39.6	160.0	248.7
3955	CARBON PAPER AND INKED RIBBONS . . .	78	100	51	4.6	53.7	3.4	6.9	33.1	142.4	344.0
396	COSTUME JEWELRY AND NOTIONS. . . .	1 458	1 514	467	51.0	450.5	41.6	75.4	293.0	1 002.0	1 766.2
3961	COSTUME JEWELRY.	837	847	236	25.0	215.9	20.8	36.1	136.1	485.1	816.6
3962	ARTIFICIAL FLOWERS	222	233	67	5.0	38.2	4.2	7.1	25.2	91.5	180.2
3963	BUTTONS.	150	159	47	3.2	30.8	2.6	4.7	20.0	50.0	95.2
3964	NEEDLES, PINS, AND FASTENERS	249	275	117	17.7	165.6	14.0	27.5	111.8	375.4	674.2
399	MISCELLANEOUS MANUFACTURES	8 073	8 280	1 540	152.0	1 622.6	115.7	213.7	1 001.0	3 484.8	6 186.9
3991	BROOMS AND BRUSHES	391	409	153	16.5	163.8	12.7	24.0	101.1	353.6	673.1
3993	SIGNS AND ADVERTISING DISPLAYS . . .	3 373	3 468	627	49.7	566.6	36.8	69.2	343.1	1 060.9	1 738.7
3995	BURIAL CASKETS	376	406	133	12.0	129.7	9.3	17.8	79.7	264.2	505.9
3996	HARD SURFACE FLOOR COVERINGS	20	21	13	6.4	93.5	5.0	10.4	68.6	321.3	607.2
3999	MANUFACTURING INDUSTRIES, NEC. . . .	3 921	3 976	614	67.3	669.1	52.0	92.3	408.5	1 484.7	2 662.0
60	ADMINISTRATIVE AND AUXILIARY[10] .	-	9 171	4 856	1 074.2	21 981.2	-	-	-	-	-

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972—Con.

Code	Industry group and industry	1977--Continued							1972			
		New capital expenditures[4]			Inventories		Ratios		All employees				
		Total (million dollars)	Structures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Specialization (percent)	Coverage (percent)	Number (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments[1] (million dollars)	New capital expenditures (million dollars)
3832	OPTICAL INSTRUMENTS AND LENSES	51.3	18.4	32.9	302.9	271.8	84	82	18.8	193.3	384.3	538.4	12.7
384	MEDICAL INSTRUMENTS, SUPPLIES	172.0	41.6	130.5	1 038.6	941.6	(NA)	(NA)	90.8	757.7	1 821.3	2 824.5	104.4
3841	SURGICAL AND MEDICAL INSTRUMENTS	87.2	21.7	65.5	360.7	322.5	88	80	34.5	282.4	630.0	961.8	42.0
3842	SURGICAL APPLIANCES AND SUPPLIES	68.6	16.2	52.5	503.7	454.7	87	85	43.9	365.3	929.0	1 453.5	47.5
3843	DENTAL EQUIPMENT AND SUPPLIES	16.2	3.7	12.5	174.1	164.3	92	98	12.4	110.0	262.3	409.2	14.9
3851	OPHTHALMIC GOODS	44.1	13.2	30.9	244.9	224.6	92	98	26.6	183.4	416.3	568.3	17.4
3861	PHOTOGRAPHIC EQUIP. AND SUPPLIES	322.7	69.2	253.5	1 503.0	1 428.2	95	95	96.0	1 119.7	4 087.9	5 623.9	202.9
3873	WATCHES, CLOCKS, AND WATCHCASES	23.2	5.4	17.9	271.7	271.2	91	95	30.8	230.3	466.0	937.2	18.8
39	MISC. MANUFACTUR'G INDUSTRIES	473.6	112.1	361.5	3 614.2	3 309.0	(NA)	(NA)	445.6	3 179.8	6 768.7	12 173.2	313.6
391	JEWELRY, SILVER AND PLATED WARE	39.6	10.1	29.4	752.5	670.8	(NA)	(NA)	53.2	424.5	850.8	1 812.5	21.9
3911	JEWELRY, PRECIOUS METAL	25.6	7.9	17.8	489.8	437.4	92	97	32.6	267.2	536.0	1 124.6	10.3
3914	SILVERWARE AND PLATED WARE	8.0	.7	7.3	142.8	136.8	93	98	13.1	106.4	206.8	377.4	9.8
3915	JEWELERS' MATS., LAPIDARY WORK	5.9	1.6	4.4	119.9	96.5	96	89	8.0	55.7	116.4	323.3	5.3
3931	MUSICAL INSTRUMENTS	13.8	2.7	11.2	243.2	245.4	(NA)	(NA)	24.5	173.4	339.3	617.5	10.6
394	TOYS AND SPORTING GOODS	147.6	33.2	114.4	1 079.2	976.0	(NA)	(NA)	132.7	880.9	1 999.3	3 662.6	121.2
3942	DOLLS	6.4	1.4	5.0	62.5	46.6	94	59	10.2	54.0	98.3	199.1	1.7
3944	GAMES, TOYS, CHILDREN'S VEHICLES	78.5	19.5	58.9	437.7	383.3	86	93	61.5	421.0	980.6	1 734.3	72.7
3949	SPORTING AND ATHLETIC GOODS, NEC	62.7	12.3	50.4	579.1	546.1	95	94	61.0	405.9	920.4	1 729.2	46.7
395	PENS, OFFICE AND ART GOODS	55.3	12.6	42.7	276.1	248.4	(NA)	(NA)	31.7	244.3	556.8	926.7	19.8
3951	PENS AND MECHNICAL PENCILS	32.8	9.1	23.7	123.1	108.6	85	94	10.9	81.9	213.7	310.5	7.6
3952	LEAD PENCILS AND ART GOODS	10.8	1.8	9.0	70.9	64.2	85	79	7.1	50.0	108.2	198.8	3.9
3953	MARKING DEVICES	5.5	.8	4.7	34.3	30.8	85	88	8.1	63.2	121.5	180.0	2.6
3955	CARBON PAPER AND INKED RIBBONS	6.2	.9	5.3	47.8	44.7	96	64	5.7	49.1	113.4	237.5	5.7
396	COSTUME JEWELRY AND NOTIONS	44.0	12.0	32.0	274.6	261.1	(NA)	(NA)	50.4	323.1	719.6	1 248.7	33.5
3961	COSTUME JEWELRY	17.6	7.8	9.8	119.6	110.6	92	89	21.4	132.1	275.7	471.6	6.7
3962	ARTIFICIAL FLOWERS	3.0	1.0	2.0	29.5	27.2	98	91	4.8	26.7	57.5	108.7	3.3
3963	BUTTONS	1.4	.3	1.2	13.9	17.6	98	82	4.0	26.7	51.8	93.7	2.3
3964	NEEDLES, PINS, AND FASTENERS	22.0	3.0	19.0	111.6	105.8	92	95	20.2	137.7	334.5	574.7	21.2
399	MISCELLANEOUS MANUFACTURES	173.3	41.4	131.8	988.6	907.3	(NA)	(NA)	153.0	1 133.6	2 302.8	3 905.2	106.6
3991	BROOMS AND BRUSHES	15.7	2.4	13.3	129.9	119.9	91	89	17.5	118.5	235.5	438.3	13.0
3993	SIGNS AND ADVERTISING DISPLAYS	43.0	13.5	29.5	210.8	190.0	98	97	49.8	415.9	747.7	1 198.1	30.6
3995	BURIAL CASKETS	16.3	2.2	14.2	81.8	78.2	99	98	14.8	109.3	210.3	391.9	8.8
3996	HARD SURFACE FLOOR COVERINGS	16.9	1.9	15.1	84.9	76.2	92	98	5.8	59.4	212.0	342.3	14.0
3999	MANUFACTURING INDUSTRIES, NEC	81.3	21.5	59.8	481.1	442.9	91	90	65.1	430.5	897.2	1 534.7	40.2
--	ADMINISTRATIVE AND AUXILIARY[10]	-	-	-	-	-	-	-	994.3	13 772.3	-	-	-

Note: 1977 and 1972 payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated.

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (X) Not applicable.

[1]The total value of shipments for industry groups (2- and 3-digit) and a few individual industries (4-digit) includes extensive duplication arising from shipments between establishments in the same industry classification.

[2]Establishments in this industry reported value of production instead of value of shipments. Consequently, the formula for computing value added by manufacture was modified to exclude any change in finished product inventories between the beginning and end of the year.

[3]Value added data include government-owned, contractor-operated plants which were estimated based upon averages reported for commercial establishments in prior years. Cost of materials data exclude government-owned materials furnished to government-owned, contractor-operated plants and include fuel and electricity purchased by or for the establishments. Value of shipments data include a calculated value of shipments for government-owned, contractor-operated plants comprised of adjusted value added plus the cost of fuels and electric energy. New capital expenditures include expenditures for plants under construction but not in operation. Capital expenditures of government-owned, contractor-operated plants are excluded from the totals for the industry.

[4]Includes expenditures for plants in operation and for plants under construction but not yet in operation.

[5]Government-owned, privately-operated establishments did not enter into the calculation of "primary product specialization ratio" or "coverage ratio" as all other dollar receipts for these establishments were included in "miscellaneous receipts."

[6]Minumum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

[7]The value of shipments and cost of materials for thia industry include substantial duplication; therefore, the specialization ratios and coverage ratios were not calculated.

[8]Relationships are not meaningful because of the predominsnce of receipts for contract and commission work on materials owned by others. Such receipts are treated as primary products for this inoustry.

[9]Establishments in this industry were requested to report value of work done instead of value of shipments. Consequently, the formula for computing value added by manufacture was not adjusted for any inventory change between the beginning and end of the year.

[10]In 1977 and 1972, in addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns reported separately for administrative offices or auxiliary units which serve the manufacturing establishments of a company (e.g., storage warehouses, power plants, research laboratories, garages, repair shopa, etc.) rather than the general public. Separate reports were obtained if these units were at different general locations from the establishments served or if they serviced more than one manufacturing establishment. The figures shown for these units do not represent a separate industry but rather a balancing total for all manufacturing industries.

Nebraska

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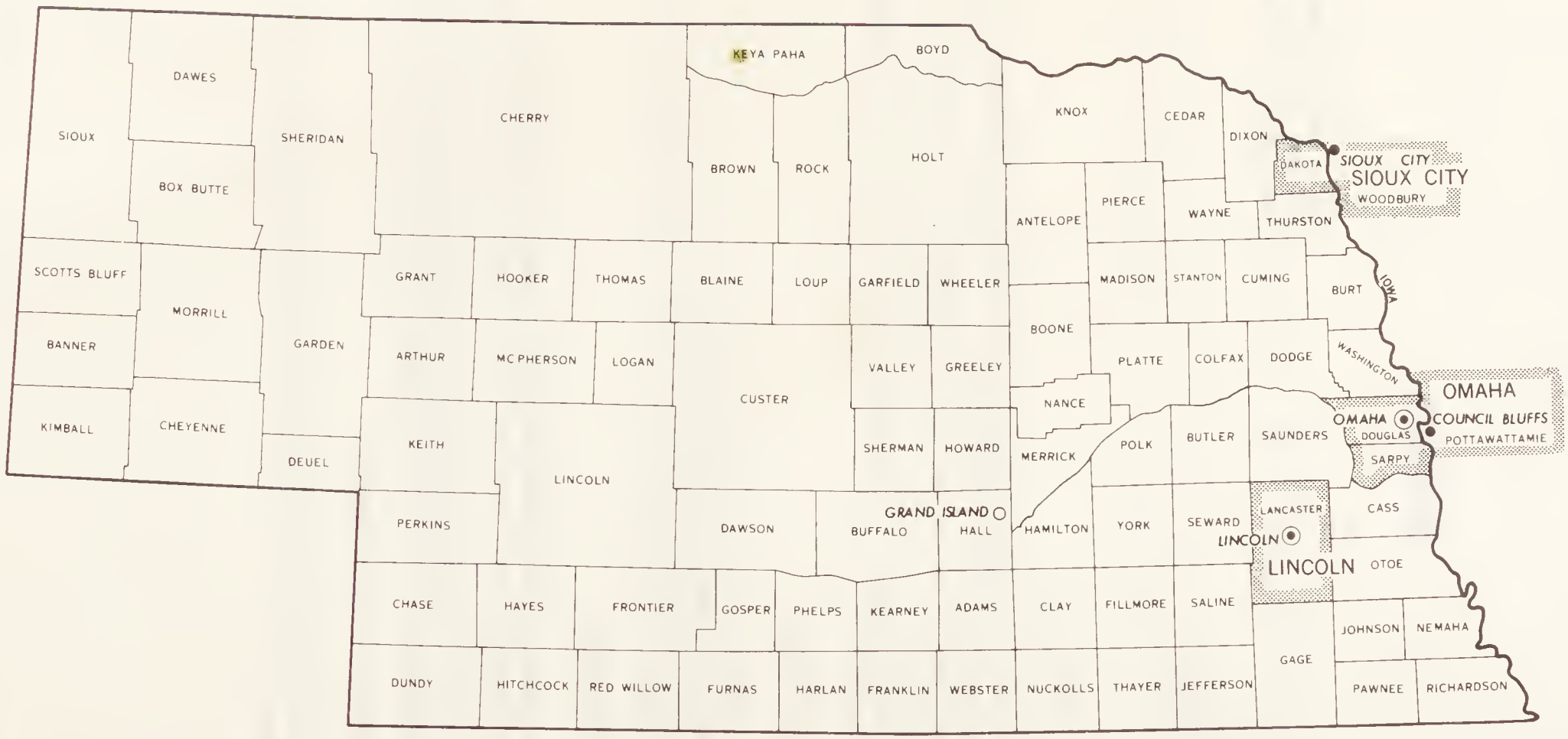
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NEBRASKA



LEGEND

- ◉ Places of 100,000 or more inhabitants
- ● Places of 50,000 to 100,000 inhabitants
- ○ Places of 25,000 to 50,000 inhabitants outside SMSA's

Standard Metropolitan Statistical Areas (SMSA's)

SCALE
0 10 20 30 40 50 MILES

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 87.7 thousand persons were employed in Nebraska's manufacturing establishments. This figure represented an increase of 3 percent from the 1972 figure of 84.9 thousand workers.

The total value added by manufacture for the State amounted to $2,867 million in 1977, an increase of approximately 65 percent from the 1972 figure of $1,733 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were food and kindred products; machinery, except electrical; electric and electronic equipment; and fabricated metal products. They accounted for approximately 57 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 60 percent of the State's employment.

The most important counties in the State ranked by employment were Douglas, Lancaster, Platter, and Hall. They accounted for approximately 65 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 64 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Nebraska:						
1977	87.7	1,075.4	85.0	1,032.2	2.7	43.2
1972	84.9	704.2	83.3	685.1	1.6	19.1
1967	77.0	475.9	75.9	465.6	1.1	10.3
1963	64.9	348.0	63.8	339.7	1.1	8.3
STANDARD METROPOLITAN STATISTICAL AREAS						
Lincoln:						
1977	13.1	154.4	12.9	150.8	.2	3.6
1972	11.6	96.3	11.5	95.2	.1	1.1
1967	9.5	57.9	9.3	56.0	.2	1.9
1963	9.1	45.6	8.9	44.8	.2	.8
Omaha, Nebr.-Iowa:						
1977	34.7	457.3	33.3	435.0	1.4	22.3
1972	38.0	341.1	37.0	329.7	1.0	11.4
2967	36.6	249.4	35.9	242.7	.7	6.7
1963	35.1	206.8	34.3	200.2	.7	6.6
Sioux City, Iowa-Nebr.:						
1977	9.6	123.7	8.8	109.0	.8	14.7
1972	10.5	87.7	(D)	(D)	(D)	(D)
1967	9.2	57.8	9.2	57.4	(Z)	.4
1963	7.5	41.5	(D)	(D)	(D)	(D)

(D) Withheld to avoid disclosing operations of individual companies. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	United States: Index of manufacturing employment change (1977=100)	United States: U.S. manufacturing employment (1,000)
	NEBRASKA														
1977 CENSUS.	1 965	626	87.7	1 075.4	62.8	124.0	680.9	2 867.1	5 864.0	8 713.4	175.1	.45	100	100	19 596.9
1976 ASM....	(NA)	(NA)	87.8	986.6	63.1	125.0	634.5	2 692.1	6 133.9	8 773.3	167.5	.47	100	96	18 753.0
1975 ASM....	(NA)	(NA)	87.3	890.8	62.5	122.7	579.1	2 384.5	6 007.9	8 393.4	160.8	.48	100	94	18 302.2
1974 ASM....	(NA)	(NA)	90.4	835.1	66.6	132.7	555.9	2 253.0	5 754.0	7 949.3	143.3	.46	103	102	19 844.8
1973 ASM....	(NA)	(NA)	88.6	769.1	66.3	133.0	516.5	1 989.8	5 024.0	6 954.9	108.5	.45	101	102	19 897.9
1972 CENSUS.	1 723	598	84.9	704.2	63.2	127.6	469.2	1 733.4	4 220.5	5 898.4	102.3	.45	97	98	19 028.7
1971 ASM....	(NA)	(NA)	80.2	618.0	58.7	119.2	411.2	1 594.1	3 234.6	4 826.6	86.5	.44	91	94	18 363.1
1970 ASM....	(NA)	(NA)	81.3	581.2	60.0	119.8	385.8	1 497.0	2 946.7	4 419.4	83.0	.42	93	99	19 217.2
1969 ASM....	(NA)	(NA)	84.0	576.2	64.3	129.4	398.1	1 415.6	3 047.3	4 440.5	94.8	.42	96	103	20 035.5
1968 ASM....	(NA)	(NA)	79.6	513.4	59.9	119.4	348.0	1 252.6	2 642.8	3 856.7	68.2	.41	91	100	19 527.6
1967 CENSUS.	1 675	525	77.0	475.9	58.4	119.2	325.0	1 150.0	2 402.7	3 531.7	71.4	.40	88	99	19 323.2
1966 ASM....	(NA)	(NA)	71.4	419.4	53.1	110.5	283.6	992.9	2 170.4	3 131.4	75.5	.38	81	98	19 024.5
1965 ASM....	(NA)	(NA)	65.9	376.4	47.9	100.5	248.5	870.3	1 874.5	2 742.6	57.3	.37	75	92	18 010.2
1964 ASM....	(NA)	(NA)	65.4	365.3	47.1	98.1	243.5	870.5	1 747.6	2 607.9	50.2	.38	75	89	17 268.5
1963 CENSUS.	1 611	474	64.9	348.0	47.0	96.7	228.5	746.6	(NA)	(NA)	46.1	.38	74	87	16 958.4

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimated based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	NEBRASKA								
1977 CENSUS.....	12 267	72	1 975	5.49	67	80	32 704	38	23.12
1976 ASM.....	11 237	72	1 981	5.08	70	81	30 662	37	21.54
1975 ASM.....	10 204	72	1 963	4.72	72	82	27 314	37	19.43
1974 ASM.....	9 238	74	1 992	4.19	72	83	24 923	37	16.98
1973 ASM.....	8 681	75	2 006	3.88	72	83	22 458	39	14.96
1972 CENSUS.....	8 294	74	2 019	3.68	72	83	20 417	41	13.58
1971 ASM.....	7 706	73	2 031	3.45	67	80	19 877	39	13.37
1970 ASM.....	7 149	74	1 997	3.22	67	80	18 413	39	12.50
1969 ASM.....	6 860	77	2 012	3.08	69	82	16 852	41	10.94
1968 ASM.....	6 450	75	1 993	2.91	69	82	15 736	41	10.49
1967 CENSUS.....	6 181	76	2 041	2.73	68	82	14 935	41	9.65
1966 ASM.....	5 874	74	2 081	2.57	69	83	13 906	42	8.99
1965 ASM.....	5 712	73	2 098	2.47	68	82	13 206	43	8.66
1964 ASM.....	5 586	72	2 083	2.48	67	81	13 310	42	8.87
1963 CENSUS.....	5 362	72	2 057	2.36	(NA)	(NA)	11 504	47	7.72

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	1 965	1 723
With 1 to 19 employees	do	1 339	1 125
With 20 to 99 employees	do	436	425
With 100 employees or more	do	190	173
All employees, average for year[1]	1,000	87.7	84.9
Payroll for year, all employees[1]	mil. dollars	1 075.4	704.2
Production workers:			
Average for year	1,000	62.8	63.2
March	do	61.4	60.5
May	do	62.8	62.0
August	do	63.5	64.6
November	do	63.2	65.5
Hours	millions	124.0	127.6
January to March	do	30.3	30.4
April to June	do	31.3	31.9
July to September	do	31.1	32.1
October to December	do	31.3	33.1
Wages	mil. dollars	680.9	469.2
Cost of materials, etc.[2]	do	5 864.0	4 220.5
Materials, parts, containers, etc., consumed	do	5 259.1	3 997.9
Resales	do	454.7	162.9
Fuels consumed	do	64.0	25.0
Purchased electric energy	do	53.1	22.3
Contract work	do	33.1	12.5
Value of shipments, including resales[2]	do	8 713.4	5 898.4
Value of resales	do	528.4	185.3
Value added by manufacture	do	2 867.1	1 733.4
Manufacturers' inventories:			
Beginning of year	do	863.7	439.2
Finished products	do	353.7	189.5
Work in process	do	174.8	95.9
Materials, supplies, fuel, etc.	do	335.2	153.9
End of year	do	896.3	501.3
Finished products	do	359.9	215.8
Work in process	do	187.0	118.7
Materials, supplies, fuel, etc.	do	349.4	166.8
Capital expenditures for plant and equipment	do	201.9	108.9
New capital expenditures	do	175.1	102.3
New buildings and other structures	do	41.0	27.1
New machinery and equipment	do	134.1	75.2
Used capital expenditures	do	26.8	6.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total	47.0	5
Beginning of year	1,688.7	1	Buildings and other structures	(10.2)	18
New capital expenditures	187.5	11	Machinery and equipment	36.7	3
Used capital expenditures	27.1	5			
Retirements	59.2	3	Depreciation charges during 1977:		
End of year	1,844.3	1	Total	113.0	2
			Buildings and other structures	21.4	4
Buildings and other structures:			Machinery and equipment	91.6	2
Beginning of year	514.8	3			
New capital expenditures	42.0	11			
Used capital expenditures	(3.2)	25	Supplemental labor costs:		
Retirements	12.9	7	Total	188.3	1
End of year	547.1	3	Legal costs	77.0	2
			Voluntary costs	111.2	2
Machinery and equipment:					
Beginning of year	1,173.9	2			
New capital expenditures	145.6	9	Purchased services:		
Automobiles, trucks, etc., for highway use	6.6	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip	1.3	(NA)	Buildings and other structures	(5.5)	19
All other	107.7	(NA)	Response coverage ratio (percent)	61	(X)
New machinery and equipment, n.s.k.	29.9	(NA)	Machinery	(27.6)	16
Used capital expenditures	23.9	4	Response coverage ratio (percent)	63	(X)
Retirements	46.3	3	Cost of purchased communication services	(11.5)	43
End of year	1,297.1	1	Response coverage ratio (percent)	61	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by counting ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Nebraska	-	**1 965**	**626**	**87.7**	**1 075.4**	**62.8**	**124.0**	**680.9**	**2 867.1**	**5 864.0**	**8 713.4**	**175.1**	**84.9**	**1 733.4**
STANDARD METROPOLITAN STATISTICAL AREAS														
Lincoln	-	217	75	13.1	154.4	9.3	17.6	94.2	400.0	651.9	1 060.4	21.1	11.6	239.8
Omaha, Nebr.-Iowa	-	680	243	34.7	457.3	24.7	48.0	288.3	1 217.4	2 616.1	3 835.0	82.6	38.0	846.3
Portion in Iowa	-	82	24	3.8	40.2	2.9	5.7	27.4	87.9	490.9	575.2	6.7	3.3	75.4
Portion in Nebraska	E1	598	219	30.9	417.1	21.7	42.3	260.9	1 129.5	2 125.2	3 259.8	75.9	34.7	770.9
Sioux City, Iowa-Nebr.	E3	165	62	9.6	123.7	6.5	12.8	71.2	285.4	1 216.0	1 496.1	38.0	10.5	196.2
Portion in Iowa	-	144	54	7.9	97.8	5.9	11.4	64.4	260.0	915.5	1 164.1	36.2	(D)	(D)
Portion in Nebraska	E4	21	8	1.6	25.9	0.5	1.4	6.9	25.4	300.5	331.9	1.8	(D)	(D)
COUNTIES														
Adams	-	70	21	2.1	25.3	1.5	3.1	14.9	70.8	87.7	156.3	3.0	2.0	34.4
Antelope	-	12	2	0.2	1.6	0.1	0.2	1.0	3.8	9.3	13.0	0.3	(D)	(D)
Arthur	E7	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Blaine	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Boone	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Box Butte	-	11	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.5
Boyd	E9	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Brown	E0	4	-	(Z)	0.3	(Z)	(Z)	0.2	0.6	0.6	1.1	(Z)	(Z)	(NA)
Buffalo	-	51	17	2.5	29.4	2.0	4.3	21.9	77.3	116.2	189.9	4.6	1.9	35.6
Burt	E1	11	1	0.1	1.3	0.1	0.2	0.9	3.6	6.2	9.8	0.2	0.2	2.5
Butler	-	9	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.2
Cass	-	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	13.0
Cedar	-	12	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.8
Chase	E3	7	-	(Z)	0.4	(Z)	(Z)	0.2	0.9	0.8	1.7	(Z)	(Z)	(NA)
Cherry	E3	9	-	(Z)	0.3	(Z)	(Z)	0.2	1.0	0.8	1.8	(Z)	(Z)	(NA)
Cheyenne	-	11	4	0.4	2.8	0.3	0.5	2.0	6.3	5.1	11.6	0.6	0.2	1.6
Clay	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colfax	-	14	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cuming	-	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Custer	-	15	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dakota	-	21	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dawes	E3	10	3	0.1	0.5	0.1	0.1	0.3	1.0	0.8	1.8	0.1	(Z)	(NA)
Dawson	-	49	21	2.8	33.3	2.2	4.9	24.0	81.7	205.2	276.8	5.4	1.9	46.6
Deuel	-	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dixon	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dodge	-	65	26	3.1	42.5	2.4	4.5	31.4	112.8	358.0	468.3	2.7	2.9	54.0
Douglas	-	560	212	30.3	408.2	21.3	41.4	256.3	1 097.5	2 085.2	3 188.1	(D)	34.3	762.4
Dundy	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fillmore	E5	8	-	(Z)	0.4	(Z)	0.1	0.2	0.8	2.4	3.2	(Z)	(Z)	(NA)
Franklin	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Frontier	E7	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Furnas	E3	16	2	0.1	1.0	0.1	0.1	0.6	2.3	6.3	8.5	0.2	(D)	(D)
Gage	-	22	12	1.2	14.1	0.9	1.7	8.5	50.7	42.1	89.9	3.0	1.2	28.1
Garden	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Garfield	E0	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Gosper	E0	4	-	(Z)	0.1	(Z)	(Z)	0.1	0.2	0.1	0.3	(Z)	(D)	(D)
Grant	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Greeley	E7	4	-	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	0.2	0.3	(Z)	(Z)	(NA)
Hall	-	73	29	3.8	46.8	2.7	5.2	28.4	148.2	138.7	284.6	6.1	4.4	71.3
Hamilton	E7	12	2	0.3	3.3	0.2	0.5	2.0	7.5	18.2	25.7	0.2	0.2	4.2
Harlan	-	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.7
Hayes	E0	3	-	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	0.1	(D)	(D)	(D)
Hitchcock	-	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Holt	-	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hooker	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Howard	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jefferson	-	13	5	0.5	4.8	0.4	0.9	3.4	10.1	20.5	30.3	1.2	0.3	3.1
Johnson	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kearney	-	10	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Keith	-	16	3	0.8	7.2	0.5	0.9	3.3	17.9	5.5	22.9	0.4	0.7	10.1
Keya Paha	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kimball	E3	11	2	0.1	0.9	0.1	0.1	0.5	2.2	1.3	3.5	0.2	0.1	1.1
Knox	E2	15	-	(Z)	0.4	(Z)	(Z)	0.2	0.2	2.4	2.6	0.1	(Z)	(NA)
Lancaster	-	217	75	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.6	239.8
Lincoln	E3	25	5	0.4	4.5	0.3	0.5	2.4	9.7	20.9	30.6	1.2	0.6	7.8
Logan	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Madison	-	52	20	2.7	31.4	2.0	4.1	20.9	104.0	187.9	291.8	7.7	1.9	35.1
Merrick	E1	9	1	0.2	1.4	0.1	0.2	0.8	2.6	3.9	6.5	0.1	(Z)	(NA)
Morrill	-	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nance	E0	5	-	(Z)	0.1	(Z)	(Z)	(Z)	0.1	0.2	0.3	(Z)	(D)	(D)
Nemaha	-	9	4	0.3	3.3	0.3	0.5	2.4	12.0	11.2	22.8	0.2	0.4	4.2
Nuckolls	-	8	3	0.3	4.1	0.3	0.5	3.2	12.8	23.1	35.6	(D)	(D)	(D)
Otoe	-	18	11	1.0	9.1	0.8	1.6	7.4	31.4	38.3	69.9	(D)	0.8	20.7
Pawnee	E1	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Perkins	-	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Phelps	-	13	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pierce	-	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.0
Platte	-	51	21	4.6	48.4	2.8	5.6	26.2	112.7	127.8	237.3	5.2	4.0	64.9
Polk	E7	5	1	0.1	0.3	(Z)	(Z)	0.1	0.6	1.2	1.8	0.1	(Z)	(NA)
Red Willow	-	15	7	0.8	7.7	0.7	1.2	5.6	18.7	19.6	37.4	1.5	0.6	10.5
Richardson	-	16	5	0.4	4.3	0.3	0.5	2.5	25.3	15.9	41.1	0.3	0.4	5.3
Rock	E3	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Saline	-	16	8	1.7	20.5	1.5	3.2	17.0	69.2	188.2	256.2	4.0	1.0	31.7

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
COUNTIES—Con.													
Sarpy	-	38	7	0.6	8.9	0.4	0.9	4.6	32.0	40.0	71.7	(D)	0.4	8.5
Saunders	-	22	7	0.3	3.8	0.3	0.5	2.6	9.3	37.8	46.7	0.3	0.3	5.8
Scotts Bluff	-	59	21	2.8	35.1	1.8	3.6	18.6	77.7	175.0	252.6	3.2	2.4	53.9
Seward	-	14	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sheridan	E1	11	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.3
Sherman	E1	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Stanton	E1	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Thayer	-	11	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.6
Thomas	-	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Thurston	E1	12	3	0.2	2.6	0.2	0.4	1.9	6.7	7.2	14.0	0.3	0.2	3.2
Valley	-	6	2	0.1	0.6	(Z)	0.1	0.4	0.8	2.0	2.9	(D)	0.1	0.5
Washington	E2	21	3	0.3	3.5	0.3	0.5	2.4	6.8	15.2	21.9	0.3	0.7	7.5
Wayne	E3	9	2	0.1	0.6	0.1	0.1	0.4	1.1	1.0	2.1	0.1	0.1	0.7
Webster	E4	5	-	(Z)	0.1	(Z)	(Z)	0.1	0.3	0.3	0.6	(Z)	(D)	(D)
York	-	30	9	0.7	8.6	0.5	1.1	5.3	18.2	124.9	142.7	1.1	0.5	11.9
CITIES													
Alliance	-	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Beatrice	-	20	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Columbus	-	41	17	3.2	34.0	1.9	3.9	17.5	74.5	76.9	150.5	(D)	2.9	43.6
Cozad	-	13	9	1.3	14.1	1.1	2.4	11.6	41.5	90.1	126.9	3.0	1.1	35.5
Crete	-	9	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fremont	-	45	21	2.7	39.3	2.1	4.0	29.1	104.7	339.4	441.9	1.9	2.5	47.9
Gering	-	15	5	1.5	20.0	0.8	1.6	9.0	50.4	99.2	149.8	1.6	1.2	31.5
Grand Island	-	54	23	3.0	37.6	2.1	4.2	24.3	137.9	116.9	252.7	4.6	1.8	26.6
Hastings	-	62	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	32.1
Holdrege	-	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kearney	-	28	8	1.3	13.5	1.1	2.2	9.6	33.9	33.4	66.2	2.5	1.1	14.1
Lexington	-	17	8	1.2	15.6	0.8	2.0	10.2	33.5	97.8	126.2	1.8	(NA)	(NA)
Lincoln	-	203	68	11.6	138.1	8.1	15.4	83.6	369.7	405.9	770.7	14.3	(D)	(D)
McCook	-	14	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	10.5
Nebraska City	-	17	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Norfolk	-	28	13	1.0	11.9	0.7	1.4	7.0	34.9	117.6	151.3	2.7	1.4	23.8
Ogallala	-	13	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Omaha	-	503	190	25.9	347.3	18.6	36.4	225.9	978.9	1 980.6	2 962.1	57.6	32.1	723.9
Scottsbluff	-	31	12	0.9	10.0	0.7	1.5	7.0	17.1	54.7	72.0	1.1	0.8	13.5
Seward	-	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
York	-	19	7	0.5	6.5	0.4	0.9	4.3	13.3	115.8	128.2	0.4	(NA)	(NA)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All Industries	-	1 965	626	87.7	1 075.4	62.8	124.0	680.9	2 867.1	5 864.0	8 713.4	175.1	84.9	1 733.4

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
20	**Food and kindred products**	–	393	184	21.5	277.1	16.1	33.4	195.3	829.7	3 706.5	4 542.0	53.3	25.4	581.0
201	Meat products	–	99	56	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.4	257.4
2011	Meat packing plants	–	69	38	6.5	101.3	5.2	11.2	81.0	221.8	2 282.0	2 501.3	13.0	9.4	219.2
2013	Sausages and other prepared meats	–	20	12	1.2	17.2	1.0	2.0	13.5	33.4	100.5	132.2	3.0	1.1	22.8
2016	Poultry dressing plants	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2017	Poultry and egg processing	–	7	4	1.0	7.8	1.0	2.0	6.7	11.6	40.2	50.3	1.8	EE	(D)
202	Dairy products	–	40	22	1.5	16.4	0.8	1.6	7.9	43.0	166.7	209.1	3.4	2.1	30.0
2022	Cheese, natural and processed	–	12	8	0.4	3.2	0.3	0.5	2.4	12.9	51.8	64.7	0.6	BB	(D)
2026	Fluid milk	–	19	10	0.9	10.6	0.4	0.8	3.8	24.2	74.6	98.5	2.6	EE	(D)
203	Preserved fruits and vegetables	–	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2037	Frozen fruits and vegetables	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2038	Frozen specialties	–	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
204	Grain mill products	–	152	45	4.3	58.8	3.2	6.9	41.5	287.4	512.7	797.0	19.8	4.0	149.9
2041	Flour and other grain mill products	–	6	5	0.4	6.3	0.4	0.8	5.3	26.5	112.8	139.6	(D)	0.5	22.7
2043	Cereal breakfast foods	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2047	Dog, cat, and other pet food	–	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2048	Prepared feeds, n.e.c.	–	133	33	2.3	26.8	1.5	3.2	15.3	104.3	265.6	368.4	9.8	2.3	55.7
205	Bakery products	–	19	12	1.5	18.8	0.8	1.7	9.4	46.2	31.3	77.5	1.3	1.5	24.9
2051	Bread, cake, and related products	–	18	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
206	Sugar and confectionery products	–	7	7	1.2	11.5	1.1	2.3	9.5	36.4	56.2	91.8	(D)	EE	(D)
2063	Beet sugar	–	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2065	Confectionery products	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
207	Fats and oils	–	20	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	12.1
2075	Soybean oil mills	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2077	Animal and marine fats and oils	E1	15	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
208	Beverages	E1	26	19	1.1	13.3	0.5	1.0	5.0	37.7	46.7	84.2	3.3	1.0	23.2
2082	Malt beverages	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2086	Bottled and canned soft drinks	E1	24	18	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
209	Miscellaneous foods and kindred products	–	21	7	0.9	10.6	0.5	1.0	4.9	46.2	107.4	153.8	1.1	0.9	28.4
2098	Macaroni and spaghetti	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2099	Food preparations, n.e.c.	E1	15	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
22	**Textile mill products**	–	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	4.0
227	Floor covering mills	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2272	Tufted carpets and rugs	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
23	**Apparel and other textile products**	–	46	15	2.0	12.6	1.7	3.3	10.2	29.8	30.6	59.9	1.3	1.6	18.1
2311	Men's and boys' suits and coats	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
232	Men's and boys' furnishings	–	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2329	Men's and boys' clothing, n.e.c.	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
233	Women's and misses' outerwear	–	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2337	Women's and misses' suits and coats	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2339	Women's and misses' outerwear, n.e.c.	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
234	Women's and children's undergarments	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2342	Brassieres and allied garments	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
239	Miscellaneous fabricated textile products	E3	25	1	0.2	1.2	0.2	0.3	0.9	2.7	3.0	5.7	(D)	AA	(D)
24	**Lumber and wood products**	E2	88	26	2.4	24.7	1.9	3.8	16.6	52.5	79.9	130.5	1.8	2.3	30.8
243	Millwork, plywood, and structural members	–	42	9	0.9	9.5	0.7	1.5	6.9	22.3	29.1	50.1	0.9	CC	(D)
2431	Millwork	–	17	5	0.4	4.2	0.4	0.7	3.1	8.6	15.8	23.5	0.6	0.2	2.2
2434	Wood kitchen cabinets	E1	16	3	0.4	4.4	0.3	0.6	3.3	11.9	10.5	21.9	0.3	0.3	4.1
245	Wood buildings and mobile homes	E3	16	12	1.0	9.9	0.8	1.5	6.0	22.1	38.2	60.3	0.4	1.3	20.0
2451	Mobile homes	E4	10	9	0.8	7.8	0.6	1.3	5.0	15.3	31.2	46.4	0.3	EE	(D)
2452	Prefabricated wood buildings	–	6	3	0.2	2.1	0.1	0.2	1.0	6.8	7.0	13.9	0.1	(NA)	(NA)
249	Miscellaneous wood products	–	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
25	**Furniture and fixtures**	-	**32**	**12**	**1.8**	**18.9**	**1.4**	**2.5**	**11.4**	**40.3**	**48.0**	**87.3**	**0.8**	**1.9**	**31.2**
251	Household furniture	-	15	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	10.3
2511	Wood household furniture	E1	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2512	Upholstered household furniture	-	3	3	0.3	3.4	0.3	0.5	2.1	6.4	4.4	10.9	(Z)	0.4	5.9
2515	Mattresses and bedsprings	-	7	4	0.2	2.1	0.2	0.3	1.4	4.3	6.5	10.8	0.1	AA	(D)
254	Partitions and fixtures	-	9	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2541	Wood partitions and fixtures	-	8	2	0.3	3.6	0.2	0.4	2.3	5.6	3.8	8.7	0.1	0.3	4.8
2542	Metal partitions and fixtures	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
26	**Paper and allied products**	**E1**	**23**	**13**	**1.1**	**13.4**	**0.9**	**1.7**	**8.8**	**27.0**	**41.3**	**68.1**	**4.5**	**1.1**	**18.2**
264	Miscellaneous converted paper products	-	12	4	0.4	4.6	0.3	0.6	3.3	9.0	12.0	20.9	2.2	0.4	6.1
2642	Envelopes	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2643	Bags, except textile bags	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
265	Paperboard containers and boxes	E2	11	9	0.7	8.8	0.6	1.1	5.5	18.0	29.3	47.2	2.3	0.7	12.2
2653	Corrugated and solid fiber boxes	-	9	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2654	Sanitary food containers	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
27	**Printing and publishing**	-	**417**	**67**	**6.3**	**69.7**	**4.0**	**7.0**	**38.1**	**150.7**	**96.6**	**246.7**	**7.1**	**6.0**	**92.8**
2711	Newspapers	-	164	28	2.8	28.6	1.4	2.3	12.4	71.2	26.4	97.6	3.1	3.0	47.2
273	Books	-	11	4	0.2	2.2	0.2	0.3	1.2	4.2	1.6	5.8	0.2	(NA)	(NA)
2732	Book printing	-	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2741	Miscellaneous publishing	-	11	1	0.2	2.2	0.1	0.2	0.9	4.0	2.3	6.3	(D)	(NA)	(NA)
275	Commercial printing	E1	180	25	2.5	29.2	2.0	3.5	19.5	56.7	49.4	105.7	3.1	2.0	31.5
2751	Commercial printing, letterpress	E1	102	6	0.8	9.2	0.6	1.1	5.8	17.5	13.9	31.3	(D)	0.7	9.8
2752	Commercial printing, lithographic	E1	74	18	1.6	19.2	1.3	2.2	13.0	38.1	34.5	72.3	2.3	EE	(D)
2761	Manifold business forms	-	4	4	0.3	3.6	0.2	0.3	1.8	4.8	12.1	16.8	0.3	CC	(D)
279	Printing trade services	-	15	3	0.2	1.8	0.1	0.2	1.3	3.0	0.8	3.7	0.2	(NA)	(NA)
28	**Chemicals and allied products**	-	**60**	**20**	**2.3**	**35.2**	**1.4**	**2.8**	**17.7**	**245.5**	**198.7**	**438.9**	**14.4**	**2.2**	**92.7**
283	Drugs	-	16	8	1.0	16.1	0.6	1.1	6.9	91.9	35.9	127.3	1.9	1.1	45.9
2831	Biological products	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2834	Pharmaceutical preparations	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
284	Soaps, cleaners, and toilet goods	-	5	2	0.3	3.6	0.2	0.4	2.3	11.4	12.8	24.0	(D)	BB	(D)
2841	Soap and other detergents	E1	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
286	Industrial organic chemicals	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
287	Agricultural chemicals	-	21	6	0.6	10.5	0.5	1.0	5.7	115.6	130.0	241.7	9.3	0.6	30.3
2873	Nitrogenous fertilizers	-	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	18.7
29	**Petroleum and coal products**	-	**6**	**3**	**0.2**	**2.4**	**0.1**	**0.3**	**1.6**	**10.2**	**42.5**	**52.2**	**0.8**	**0.2**	**7.3**
30	**Rubber and miscellaneous plastics products**	-	**49**	**18**	**FF**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**3.7**	**66.1**
3041	Rubber and plastics hose and belting	-	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3069	Fabricated rubber products, n.e.c.	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3079	Miscellaneous plastics products	E2	42	12	1.0	9.6	0.8	1.6	6.6	21.0	27.6	48.4	3.4	1.3	18.5
32	**Stone, clay, and glass products**	-	**174**	**40**	**2.7**	**34.2**	**2.0**	**3.9**	**21.7**	**83.0**	**88.5**	**169.7**	**9.5**	**2.5**	**53.7**
3241	Cement, hydraulic	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
325	Structural clay products	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3251	Brick and structural clay tile	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
327	Concrete, gypsum, and plaster products	E1	136	31	1.8	21.9	1.2	2.3	12.3	43.2	61.5	104.5	5.5	1.7	34.7
3271	Concrete block and brick	E2	11	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3272	Concrete products, n.e.c.	-	34	8	0.6	7.5	0.4	0.9	4.3	14.4	12.9	27.1	0.8	CC	(D)
3273	Ready-mixed concrete	E1	89	17	0.9	11.3	0.6	1.1	6.4	23.0	40.0	62.9	4.3	0.7	15.8
329	Miscellaneous nonmetallic mineral products	-	18	5	0.3	3.7	0.3	0.5	2.5	12.9	9.9	22.3	1.1	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
33	**Primary metal industries**	-	**26**	**15**	**2.7**	**44.6**	**2.2**	**4.6**	**34.3**	**105.3**	**368.9**	**488.7**	**13.5**	**2.6**	**88.3**
331	Blast furnace and basic steel products	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3312	Blast furnaces and steel mills	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
332	Iron and steel foundries	-	6	4	0.4	5.4	0.3	0.7	3.6	9.8	5.2	14.7	0.5	CC	(D)
3321	Gray iron foundries	-	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3325	Steel foundries, n.e.c.	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
333	Primary nonferrous metals	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3332	Primary lead	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
335	Nonferrous rolling and drawing	-	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3357	Nonferrous wire drawing and insulating	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
336	Nonferrous foundries	-	7	4	0.2	2.4	0.2	0.4	1.9	10.9	9.5	20.0	0.2	AA	(D)
3362	Brass, bronze, and copper foundries	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
34	**Fabricated metal products**	-	**130**	**53**	**7.4**	**93.9**	**5.3**	**10.8**	**57.4**	**207.4**	**258.8**	**462.5**	**10.2**	**7.2**	**115.1**
341	Metal cans and shipping containers	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3411	Metal cans	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
342	Cutlery, hand tools, and hardware	-	7	4	0.8	8.2	0.6	1.2	5.8	19.7	13.4	33.2	0.6	BB	(D)
3423	Hand and edge tools, n.e.c.	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
343	Plumbing and heating, except electric	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3433	Heating equipment, except electric	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
344	Fabricated structural metal products	-	62	28	3.6	45.9	2.4	4.8	23.6	96.5	149.9	244.1	5.0	2.7	51.3
3441	Fabricated structural metal	-	12	7	1.3	15.4	0.9	1.7	7.6	30.6	41.6	71.4	0.7	1.1	18.6
3442	Metal doors, sash, and trim	E1	10	4	0.4	3.8	0.2	0.5	1.8	7.1	7.5	14.5	(D)	BB	(D)
3444	Sheet metal work	-	16	8	0.9	11.8	0.7	1.4	7.1	32.9	50.4	83.4	1.1	0.9	16.7
3448	Prefabricated metal buildings	-	7	4	0.6	7.8	0.3	0.6	3.0	11.9	27.7	38.8	0.9	(NA)	(NA)
3449	Miscellaneous metal work	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	9.1
345	Screw machine products, bolts, etc.	-	7	3	0.2	1.8	0.1	0.3	1.4	3.3	1.4	4.7	(D)	(NA)	(NA)
3451	Screw machine products	-	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
348	Ordnance and accessories, n.e.c.	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	17.9
3489	Ordnance and accessories, n.e.c.	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	28	10	1.4	17.7	1.1	2.1	12.5	39.4	44.4	84.0	1.8	1.3	21.7
3494	Valves and pipe fittings	-	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	10.7
3495	Wire springs	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3499	Fabricated metal products, n.e.c.	-	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
35	**Machinery, except electrical**	-	**263**	**63**	**12.2**	**160.9**	**8.2**	**16.2**	**95.0**	**409.5**	**394.7**	**794.6**	**23.3**	**8.7**	**192.2**
352	Farm and garden machinery	-	109	35	7.7	100.8	4.9	9.7	55.9	275.1	291.8	561.7	17.6	4.8	91.9
3523	Farm machinery and equipment	-	106	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
353	Construction and related machinery	-	16	6	0.7	7.9	0.5	1.0	4.8	16.1	14.6	30.6	0.6	BB	(D)
3531	Construction machinery	-	6	3	0.5	5.6	0.3	0.7	3.3	11.2	9.7	20.8	0.5	0.3	5.5
354	Metalworking machinery	-	20	5	0.3	3.8	0.2	0.3	1.9	7.3	3.2	10.5	0.2	0.2	2.5
355	Special industry machinery	E1	9	2	0.2	2.4	0.1	0.2	1.2	5.1	6.2	11.3	0.4	0.2	2.7
356	General industrial machinery	-	18	7	1.9	25.6	1.5	2.8	17.8	55.5	45.5	97.8	3.0	EE	(D)
3561	Pumps and pumping equipment	-	9	5	1.7	23.2	1.3	2.6	16.6	49.8	41.8	88.1	(D)	EE	(D)
357	Office and computing machines	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3573	Electronic computing equipment	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
359	Miscellaneous machinery, except electrical	-	80	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3592	Carburetors, pistons, rings, and valves	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3599	Machinery, except electrical, n.e.c.	E2	78	4	0.4	4.9	0.3	0.6	3.6	10.5	6.5	16.9	0.6	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
36	**Electric and electronic equipment**	–	**50**	**28**	**8.6**	**98.7**	**8.2**	**11.9**	**65.2**	**284.0**	**145.3**	**410.5**	**8.8**	**9.8**	**171.6**
361	Electric distributing equipment	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3613	Switchgear and switchboard apparatus	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
366	Communication equipment	–	12	10	4.4	58.8	3.5	6.4	43.8	145.3	100.6	249.3	(D)	FF	(D)
3661	Telephone and telegraph apparatus	–	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3662	Radio and TV communication equipment	–	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	11.2
367	Electronic components and accessories	–	15	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3675	Electronic capacitors	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3676	Electronic resistors	–	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
369	Miscellaneous electrical equipment and supplies	E2	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.3
37	**Transportation equipment**	–	**43**	**15**	**4.3**	**47.1**	**3.4**	**6.8**	**33.2**	**118.1**	**184.4**	**274.4**	**(D)**	**3.4**	**68.5**
371	Motor vehicles and equipment	–	20	8	2.8	30.0	2.4	4.7	23.3	83.5	67.9	146.3	(D)	2.2	49.5
3714	Motor vehicle parts and accessories	–	10	5	2.0	20.0	1.7	3.6	15.8	65.2	44.8	105.3	(D)	EE	(D)
3715	Truck trailers	–	6	3	0.8	9.8	0.7	1.1	7.3	17.9	22.6	40.1	(D)	CC	(D)
3751	Motorcycles, bicycles, and parts	–	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
379	Miscellaneous transportation equipment	–	12	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3799	Transportation equipment, n.e.c.	–	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
38	**Instruments and related products**	–	33	16	3.5	36.0	3.0	5.9	28.7	145.6	79.4	223.4	9.5	2.9	82.4
382	Measuring and controlling devices	–	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3824	Fluid meters and counting devices	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3832	Optical instruments and lenses	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
384	Medical instruments and supplies	–	15	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3841	Surgical and medical instruments	–	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3842	Surgical appliances and supplies	–	8	3	0.2	1.8	0.1	0.2	1.1	3.4	2.8	6.3	(D)	(NA)	(NA)
3861	Photographic equipment and supplies	–	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
39	**Miscellaneous manufacturing industries**	–	73	13	1.4	11.4	1.1	2.0	7.5	25.8	20.0	45.3	1.2	1.5	18.8
394	Toys and sporting goods	–	14	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3949	Sporting and athletic goods, n.e.c.	–	11	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
399	Miscellaneous manufactures	–	46	8	1.0	8.4	0.7	1.4	5.3	19.2	16.0	35.1	(D)	0.6	5.4
3991	Brooms and brushes	E1	6	2	0.2	1.2	0.2	0.3	0.9	2.4	2.1	4.4	(D)	AA	(D)
3993	Signs and advertising displays	E1	25	4	0.2	2.1	0.1	0.3	1.3	4.1	2.1	6.1	0.1	0.2	2.6
3999	Manufacturing industries, n.e.c.	–	12	2	0.5	4.8	0.4	0.8	3.0	12.2	10.9	23.1	0.4	(NA)	(NA)
–	**Administrative and auxiliary**	–	46	19	2.7	43.2	–	–	–	–	–	–	–	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Lincoln SMSA	-	**217**	**75**	**13.1**	**154.4**	**9.3**	**17.6**	**94.2**	**400.0**	**651.9**	**1 060.4**	**21.1**	**11.6**	**239.8**
27	Printing and publishing	-	56	12	1.5	17.1	1.0	1.5	9.4	38.6	27.9	66.4	1.7	1.5	23.1
275	Commercial printing	-	30	5	0.7	8.4	0.6	0.9	5.6	15.3	15.8	31.1	0.2	(NA)	(NA)
2752	Commercial printing, lithographic	-	17	4	0.6	7.8	0.5	0.8	5.2	14.3	15.3	29.5	0.2	0.6	9.5
30	Rubber and miscellaneous plastics products	-	9	3	2.2	27.3	1.8	3.5	20.3	70.4	39.0	108.1	2.2	(NA)	(NA)
32	Stone, clay, and glass products	-	11	5	0.3	3.8	0.3	0.5	2.6	7.8	9.3	17.1	0.7	(NA)	(NA)
34	Fabricated metal products	-	18	12	1.2	14.1	0.9	1.7	8.5	24.4	25.4	49.5	(D)	0.6	9.6
3441	Fabricated structural metal	-	6	3	0.3	2.7	0.2	0.3	1.5	2.5	7.9	10.5	0.2	(NA)	(NA)
36	Electric and electronic equipment	-	9	5	1.3	14.4	1.0	1.9	9.7	62.6	30.7	96.0	(D)	1.1	36.8
	Omaha, Nebr.-Iowa, SMSA	-	**680**	**243**	**34.7**	**457.3**	**24.7**	**48.0**	**288.3**	**1 217.4**	**2 616.1**	**3 835.0**	**82.6**	**38.0**	**846.3**
20	Food and kindred products	-	98	60	8.7	118.3	6.5	13.5	83.3	407.6	1 578.0	1 977.0	27.0	10.7	299.7
201	Meat products	-	31	25	3.8	53.1	3.2	6.7	42.0	117.3	1 146.3	1 256.9	13.4	5.2	123.5
2011	Meat packing plants	-	21	19	2.7	38.0	2.3	4.7	30.3	89.5	1 051.2	1 135.3	10.5	3.8	89.5
2013	Sausages and other prepared meats	-	10	6	1.2	15.1	1.0	2.1	11.7	27.8	95.1	121.6	2.8	(NA)	(NA)
204	Grain mill products	-	18	8	1.4	24.1	1.2	2.5	18.9	140.1	158.7	296.7	7.6	1.3	72.0
205	Bakery products	-	9	8	1.0	12.9	0.5	1.1	6.7	30.9	22.0	52.9	1.0	1.0	17.0
208	Beverages	-	8	6	0.5	7.7	0.3	0.5	3.3	27.5	25.6	53.1	1.6	0.6	16.1
209	Miscellaneous foods and kindred products	-	13	5	0.7	8.2	0.4	0.9	3.6	44.3	99.1	143.5	1.0	0.7	31.4
24	Lumber and wood products	E1	23	6	0.5	4.6	0.4	0.8	3.5	9.3	8.2	17.7	0.9	(NA)	(NA)
25	Furniture and fixtures	-	21	11	1.7	18.0	1.3	2.3	10.9	38.3	48.7	86.9	0.7	2.0	31.2
2512	Upholstered household furniture	-	5	4	0.6	6.1	0.5	0.8	3.9	11.0	9.2	20.4	(D)	(NA)	(NA)
26	Paper and allied products	E2	13	9	0.9	10.5	0.7	1.4	7.1	20.9	33.1	53.8	4.4	0.9	14.7
264	Miscellaneous converted paper products	-	8	4	0.4	4.4	0.3	0.6	3.2	8.5	11.6	20.0	2.2	0.4	6.1
265	Paperboard containers and boxes	E3	5	5	0.5	6.1	0.4	0.8	4.0	12.4	21.6	33.8	2.2	0.5	8.6
27	Printing and publishing	-	143	32	3.2	36.9	2.0	3.8	20.6	77.4	54.6	131.7	3.4	2.9	48.9
275	Commercial printing	E1	91	19	1.6	18.4	1.2	2.3	12.3	36.9	30.7	67.3	2.6	1.2	19.0
2751	Commercial printing, letterpress	-	44	5	0.6	7.4	0.5	0.9	4.6	14.2	11.8	25.9	(D)	(NA)	(NA)
2752	Commercial printing, lithographic	E1	44	13	0.8	10.3	0.7	1.3	7.1	21.8	18.3	39.8	2.1	0.6	11.2
28	Chemicals and allied products	-	35	13	1.3	17.5	0.9	1.6	9.4	153.5	129.2	280.7	11.1	1.1	49.7
283	Drugs	-	12	6	0.3	4.3	0.2	0.4	2.1	38.0	23.6	61.2	0.9	0.3	16.5
284	Soaps, cleaners, and toilet goods	-	5	2	0.3	3.6	0.2	0.4	2.3	11.4	12.8	24.0	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E3	18	6	0.6	6.0	0.5	0.9	4.0	13.5	12.0	25.3	1.2	0.6	8.7
32	Stone, clay, and glass products	-	46	15	0.7	9.4	0.4	0.9	4.7	18.7	26.2	44.7	2.7	1.0	21.4
33	Primary metal industries	-	12	7	2.2	36.9	1.7	3.6	27.5	80.8	336.6	431.1	10.3	2.5	93.7
34	Fabricated metal products	-	58	18	1.9	27.3	1.5	3.0	17.8	58.1	81.4	136.6	1.9	2.0	31.1
3441	Fabricated structural metal	-	6	5	0.3	5.1	0.2	0.4	2.5	7.7	15.6	21.4	(D)	0.4	8.7
3442	Metal doors, sash, and trim	E1	7	3	0.3	3.5	0.2	0.4	1.6	6.6	7.0	13.5	0.2	(NA)	(NA)
35	Machinery, except electrical	-	73	18	4.3	60.0	2.8	5.3	33.7	124.7	107.4	235.6	9.8	4.1	95.5
352	Farm and garden machinery	-	17	6	1.9	26.6	1.2	2.3	13.4	61.5	62.0	127.1	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	21	9	4.0	56.2	3.3	6.0	42.4	142.0	94.1	235.7	(D)	(NA)	(NA)
38	Instruments and related products	-	14	5	0.4	4.7	0.3	0.6	3.1	13.4	26.5	39.1	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	36	7	1.0	8.6	0.8	1.5	5.4	17.3	14.5	31.4	0.9	1.2	16.1
399	Miscellaneous manufactures	-	24	5	0.8	6.9	0.6	1.2	4.3	14.4	12.4	26.6	0.8	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	-	7	2	0.5	4.6	0.3	0.7	2.8	10.3	9.1	19.2	(D)	(NA)	(NA)
--	Administrative and auxiliary	-	26	12	1.4	22.3	-	-	-	-	-	-	-	(NA)	(NA)
	Sioux City, Iowa-Nebr., SMSA	-	**165**	**62**	**9.6**	**123.7**	**6.5**	**12.8**	**71.2**	**285.4**	**1 216.0**	**1 496.1**	**38.0**	**10.5**	**196.2**
20	Food and kindred products	-	47	28	3.8	51.4	2.6	5.6	34.5	135.6	991.9	1 136.3	21.1	4.8	112.1
201	Meat products	-	15	10	2.4	33.9	1.9	4.0	26.4	64.1	636.9	705.4	16.9	3.4	76.8
204	Grain mill products	-	14	6	0.3	4.0	0.2	0.3	1.9	15.9	66.6	82.5	0.5	0.3	8.8
2048	Prepared feeds, n.e.c.	-	14	6	0.3	4.0	0.2	0.3	1.9	15.9	66.6	82.5	0.5	0.3	8.8
27	Printing and publishing	E1	24	2	0.3	3.2	0.1	0.2	1.3	9.4	2.9	12.4	0.5	0.4	6.5
28	Chemicals and allied products	-	9	4	0.4	7.4	0.2	0.5	3.4	40.3	97.1	138.3	12.8	0.3	15.5
34	Fabricated metal products	-	12	4	0.3	4.4	0.2	0.5	2.5	16.1	19.6	26.9	0.3	(NA)	(NA)
35	Machinery, except electrical	-	24	10	1.3	16.6	0.9	1.6	10.1	32.2	33.3	64.1	1.2	1.5	22.0

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Adams County	-	70	21	2.1	25.3	1.5	3.1	14.9	70.8	87.7	156.3	3.0	2.0	34.4
	Buffalo County	-	51	17	2.5	29.4	2.0	4.3	21.9	77.3	116.2	189.9	4.6	1.9	35.6
	Dawson County	-	49	21	2.8	33.3	2.2	4.9	24.0	81.7	205.2	276.8	5.4	1.9	46.6
20	Food and kindred products	-	31	12	0.7	8.7	0.6	1.4	6.3	19.8	126.1	144.8	2.0	0.7	11.5
	Dodge County	-	65	26	3.1	42.5	2.4	4.5	31.4	112.8	358.0	468.3	2.7	2.9	54.0
20	Food and kindred products	-	23	10	2.0	30.3	1.6	2.9	23.6	75.5	314.2	390.2	1.7	2.0	37.4
	Douglas County	-	560	212	30.3	408.2	21.3	41.4	256.3	1 097.5	2 085.2	3 188.1	(D)	34.3	762.4
204	Grain mill products	-	14	8	1.4	23.7	1.2	2.5	18.7	139.3	157.3	294.5	(D)	(NA)	(NA)
208	Beverages	-	8	6	0.5	7.7	0.3	0.5	3.3	27.5	25.6	53.1	1.6	(NA)	(NA)
23	Apparel and other textile products	E2	16	3	0.6	3.8	0.6	1.0	3.0	4.1	2.5	7.3	(D)	(NA)	(NA)
25	Furniture and fixtures	-	14	8	1.2	14.2	0.9	1.8	8.3	32.0	41.7	73.3	0.6	(NA)	(NA)
27	Printing and publishing	-	119	29	2.9	34.8	1.9	3.6	19.6	72.7	52.8	125.1	3.2	(NA)	(NA)
2751	Commercial printing, letterpress	-	38	5	0.6	7.3	0.5	0.9	4.5	14.0	11.5	25.4	0.4	(NA)	(NA)
2752	Commercial printing, lithographic	E1	38	13	0.8	10.0	0.6	1.3	6.9	20.9	17.7	38.4	2.1	(NA)	(NA)
32	Stone, clay, and glass products	-	35	14	0.6	8.1	0.4	0.8	4.2	15.6	21.7	37.1	2.6	(NA)	(NA)
327	Concrete, gypsum, and plaster products	-	22	13	0.6	7.3	0.3	0.6	3.6	13.8	19.1	32.7	(D)	(NA)	(NA)
34	Fabricated metal products	-	48	15	1.7	23.9	1.3	2.7	15.9	51.6	69.2	119.7	(D)	(NA)	(NA)
37	Transportation equipment	-	9	4	0.9	11.1	0.8	1.3	8.7	21.3	24.3	45.1	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	32	6	1.0	8.1	0.7	1.4	5.2	16.5	13.7	29.7	0.8	(NA)	(NA)
399	Miscellaneous manufactures	-	20	4	0.7	6.5	0.6	1.1	4.1	13.6	11.5	24.9	0.7	(NA)	(NA)
--	Administrative and auxiliary	-	23	12	1.3	21.9	-	-	-	-	-	-	-	(NA)	(NA)
	Gage County	-	22	12	1.2	14.1	0.9	1.7	8.5	50.7	42.1	89.9	3.0	1.2	28.1
	Hall County	-	73	29	3.8	46.8	2.7	5.2	28.4	148.2	138.7	284.6	6.1	4.4	71.3
20	Food and kindred products	-	16	10	0.8	8.2	0.5	1.0	3.8	16.8	33.8	50.5	1.6	1.1	17.5
34	Fabricated metal products	-	6	4	0.5	7.5	0.3	0.6	2.8	10.1	25.2	35.0	0.8	(NA)	(NA)
	Jefferson County	-	13	5	0.5	4.8	0.4	0.9	3.4	10.1	20.5	30.3	1.2	0.3	3.1
	Keith County	-	16	3	0.8	7.2	0.5	0.9	3.3	17.9	5.5	22.9	0.4	0.7	10.1
	Madison County	-	52	20	2.7	31.4	2.0	4.1	20.9	104.0	187.9	291.8	7.7	1.9	35.1
20	Food and kindred products	-	18	10	0.6	6.5	0.4	0.9	3.8	22.4	124.1	145.7	1.6	0.8	12.6
	Otoe County	-	18	11	1.0	9.1	0.8	1.6	7.4	31.4	38.3	69.9	(D)	0.8	20.7
	Platte County	-	51	21	4.6	48.4	2.8	5.6	26.2	112.7	127.8	237.3	5.2	4.0	64.9
35	Machinery, except electrical	-	12	7	1.0	10.1	0.5	0.9	4.4	21.1	40.7	59.7	1.0	(NA)	(NA)
	Red Willow County	-	15	7	0.8	7.7	0.7	1.2	5.6	18.7	19.6	37.4	1.5	0.6	10.5
	Saline County	-	16	8	1.7	20.5	1.5	3.2	17.0	69.2	188.2	256.2	4.0	1.0	31.7
	Sarpy County	-	38	7	0.6	8.9	0.4	0.9	4.6	32.0	40.0	71.7	(D)	0.4	8.5
	Scotts Bluff County	-	59	21	2.8	35.1	1.8	3.6	18.6	77.7	175.0	252.6	3.2	2.4	53.9
20	Food and kindred products	-	15	8	1.0	12.4	0.8	1.8	9.8	28.7	105.5	133.7	0.6	1.0	24.7
	York County	-	30	9	0.7	8.6	0.5	1.1	5.3	18.2	124.9	142.7	1.1	0.5	11.9

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individuel companies. (NA) Not available. (Z) Less than 50 thousend dollers or hours; under 50 employees.
[1]Peyroll and sales deta for smell single-unit companies with up to 20 employees (cutoff varied by industry) were obteined from administretive records of other government egencies rather than from census report forms. These date were then used in conjunction with industry evereges to estimete the belence of items shown for these small esteblishments. This technique wes also used for a small number of other esteblishments whose reports were not received at time dete were tebuleted. The following symbols ere shown for those Stetes where estimated date based on administrative records dete eccount for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of meterials end velue of shipments for industry groups (2- end 3-digit) end for all menufacturing industries includes extensive duplication, since products of some industries ere used es materiels by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups end industries with 450 employees or more within cities, except those thet would disclose operetions of individuel compenies. For explanetion of terms, see eppendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Peyroll (million dollars)	Number (1,000)	Hours (mil.)	Weges (million dollers)	Value edded by manufecture (million dollers)	Cost of meterials[2] (million dollers)	Value of shipments[2] (million dollers)	New capitel expenditures (million dollers)	All employees (1,000)	Value edded by menufecture (million dollers)
	Columbus	-	**41**	**17**	**3.2**	**34.0**	**1.9**	**3.9**	**17.5**	**74.5**	**76.9**	**150.5**	**(D)**	**2.9**	**43.6**
	Cozad	-	**13**	**9**	**1.3**	**14.1**	**1.1**	**2.4**	**11.6**	**41.5**	**90.1**	**126.9**	**3.0**	**1.1**	**35.5**
	Fremont	-	**45**	**21**	**2.7**	**39.3**	**2.1**	**4.0**	**29.1**	**104.7**	**339.4**	**441.9**	**1.9**	**2.5**	**47.9**
20	Food and kindred products	-	13	7	1.8	28.4	1.4	2.6	22.3	69.6	297.7	368.0	1.1	1.8	35.6
	Gering	-	**15**	**5**	**1.5**	**20.0**	**0.8**	**1.6**	**9.0**	**50.4**	**99.2**	**149.6**	**1.6**	**1.2**	**31.5**
	Grand Island	-	**54**	**23**	**3.0**	**37.6**	**2.1**	**4.2**	**24.3**	**137.9**	**116.9**	**252.7**	**4.6**	**1.6**	**26.6**
	Kearney	-	**28**	**8**	**1.3**	**13.5**	**1.1**	**2.2**	**9.6**	**33.9**	**33.4**	**66.2**	**2.5**	**1.1**	**14.1**
	Lexington	-	**17**	**6**	**1.2**	**15.6**	**0.6**	**2.0**	**10.2**	**33.5**	**97.8**	**126.2**	**1.8**	**(NA)**	**(NA)**
	Lincoln	-	**203**	**66**	**11.6**	**138.1**	**6.1**	**15.4**	**63.6**	**369.7**	**405.9**	**770.7**	**14.3**	**(D)**	**(D)**
20	Food and kindred products	-	20	13	2.5	27.8	1.8	3.5	18.6	71.2	223.7	293.1	2.3	(NA)	(NA)
27	Printing and publishing	-	56	12	1.5	17.1	1.0	1.5	9.4	38.6	27.9	66.4	1.7	(NA)	(NA)
275	Commercial printing	-	30	5	0.7	8.4	0.6	0.9	5.6	15.3	15.8	31.1	0.2	(NA)	(NA)
2752	Commercial printing, lithographic	-	17	4	0.6	7.8	0.5	0.8	5.2	14.3	15.3	29.5	0.2	(NA)	(NA)
	Norfolk	-	**26**	**13**	**1.0**	**11.9**	**0.7**	**1.4**	**7.0**	**34.9**	**117.6**	**151.3**	**2.7**	**1.4**	**23.8**
	Omaha	-	**503**	**190**	**25.9**	**347.3**	**16.6**	**36.4**	**225.9**	**978.9**	**1 980.6**	**2 962.1**	**57.6**	**32.1**	**723.9**
20	Food and kindred products	-	81	54	6.9	98.3	5.0	10.3	68.1	357.2	1 140.8	1 492.1	22.7	(NA)	(NA)
208	Beverages	-	8	6	0.5	7.7	0.3	0.5	3.3	27.5	25.6	53.1	1.6	(NA)	(NA)
265	Paperboard containers end boxes	E3	4	4	0.5	5.8	0.4	0.7	3.8	11.8	20.8	32.5	2.2	(NA)	(NA)
27	Printing and publishing	-	109	24	2.6	31.5	1.7	3.2	17.6	64.0	42.7	106.7	2.5	(NA)	(NA)
275	Commercial printing	-	74	16	1.4	16.6	1.1	2.1	11.1	30.7	26.2	56.8	1.9	(NA)	(NA)
32	Stone, clay, end glass products	-	28	13	0.6	7.3	0.3	0.7	3.6	13.6	19.9	33.3	2.4	0.8	16.9
327	Concrete, gypsum, and plester products	-	18	12	0.5	6.7	0.3	0.6	3.2	12.4	17.9	30.0	(D)	(NA)	(NA)
344	Fabricated structurel metal products	-	19	7	0.6	7.5	0.4	0.7	3.9	10.3	20.7	31.1	0.4	(NA)	(NA)
37	Trensportation equipment	-	9	4	0.9	11.1	0.8	1.3	8.7	21.3	24.3	45.1	(D)	(NA)	(NA)
--	Administrative and auxiliary	-	16	8	0.7	14.0	-	-	-	-	-	-	-	(NA)	(NA)
	Scottsbluff	-	**31**	**12**	**0.9**	**10.0**	**0.7**	**1.5**	**7.0**	**17.1**	**54.7**	**72.0**	**1.1**	**0.8**	**13.5**
	York	-	**19**	**7**	**0.5**	**6.5**	**0.4**	**0.9**	**4.3**	**13.3**	**115.6**	**126.2**	**0.4**	**(NA)**	**(NA)**

Note: "City" level includes date on number of establishments, total employment, and total peyroll for centrel administrative offices end auxilieries (for definition, see eppendix B).
- Represents zero. (D) Withheld to avoid disclosing operetions of individual companies. (NA) Not available. (Z) Less then 50 thousend dollers or hours; under 50 employees.
[1]Payroll and seles data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from edministrative records of other government egencies rather then from census report forms. These deta were then used in conjunction with industry everages to estimete the balence of items shown for these small establishments. This technique wes elso used for e small number of other establishments whose reports were not received et time date were tabulated. The following symbols ere shown for those industry groups and industries where estimeted data based on edministrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of meteriels and value of shipments for industry groups (2- and 3-digit) and for ell manufacturing industries includes extensive duplicetion, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--atone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NEBRASKA	1965	393	-	5	46	88	32	23	417	60	6	49	8	174	26	130	263	50	43	33	73	46
1 TO 4 EMPLOYEES	772	92	-	2	17	33	9	2	247	23	3	17	4	75	3	47	112	9	16	11	39	11
5 TO 9 EMPLOYEES	280	47	-	-	6	20	6	5	43	8	-	4	-	40	4	16	43	11	7	4	8	8
10 TO 19 EMPLOYEES	287	70	-	1	8	9	5	3	60	9	-	10	-	19	4	14	45	2	5	2	13	8
20 TO 49 EMPLOYEES	282	82	-	-	3	11	4	6	41	8	1	7	4	31	5	19	25	10	3	6	7	9
50 TO 99 EMPLOYEES	154	50	-	1	5	9	3	2	17	5	1	4	-	4	3	15	17	4	5	3	2	4
100 TO 249 EMPLOYEES	115	32	-	-	5	5	3	5	6	6	1	4	-	5	4	11	10	9	1	1	3	4
250 TO 499 EMPLOYEES	41	14	-	1	2	1	1	-	2	-	-	2	-	-	2	5	4	-	1	4	1	1
500 TO 999 EMPLOYEES	27	5	-	-	-	-	1	-	1	1	-	-	-	-	-	3	4	4	5	2	-	1
1000 TO 2499 EMPLOYEES	6	1	-	-	-	-	-	-	-	-	-	1	-	-	1	-	3	-	-	-	-	-
2500 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
ADAMS COUNTY	70	9	-	-	3	5	1	1	7	1	-	3	1	14	4	3	10	-	3	2	3	-
1 TO 19 EMPLOYEES	49	5	-	-	2	3	1	-	6	-	-	1	-	13	3	1	7	-	2	2	3	-
20 TO 99 EMPLOYEES	14	3	-	-	1	2	-	-	-	1	-	2	1	1	1	-	1	-	1	-	-	-
100 TO 249 EMPLOYEES	5	1	-	-	-	-	-	1	1	-	-	-	-	-	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
ANTELOPE COUNTY	12	1	-	-	-	2	-	-	5	-	-	1	-	1	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	10	-	-	-	-	1	-	-	5	-	-	1	-	1	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTHUR COUNTY	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
BLAINE COUNTY	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
BOONE COUNTY	3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
BOX BUTTE COUNTY	11	2	-	-	1	-	-	-	5	-	-	1	-	-	-	-	1	-	1	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	-	-	-	4	-	-	-	-	-	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
BOYD COUNTY	4	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
BROWN COUNTY	4	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
BUFFALO COUNTY	51	19	-	1	1	-	1	-	6	-	-	2	-	4	1	3	7	2	2	-	2	-
1 TO 19 EMPLOYEES	34	12	-	1	1	-	1	-	5	-	-	1	-	4	-	-	4	2	1	-	2	-
20 TO 99 EMPLOYEES	12	6	-	-	-	-	-	-	1	-	-	-	-	-	1	2	2	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-
BURT COUNTY	11	5	-	-	-	1	-	-	2	1	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	10	5	-	-	-	-	-	-	2	1	-	-	-	1	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUTLER COUNTY	9	4	-	-	-	1	-	-	2	-	-	-	-	-	-	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES	8	3	-	-	-	1	-	-	2	-	-	-	-	-	-	-	1	-	-	-	1	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CASS COUNTY	12	-	-	-	-	1	-	-	1	2	-	-	-	2	-	-	5	-	1	-	-	-
1 TO 19 EMPLOYEES	10	-	-	-	-	1	-	-	1	1	-	-	-	1	-	-	5	-	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
CEDAR COUNTY	12	3	-	-	-	-	-	-	5	-	-	-	-	1	-	-	2	-	-	-	-	1
1 TO 19 EMPLOYEES	11	2	-	-	-	-	-	-	5	-	-	-	-	1	-	-	2	-	-	-	-	1
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHASE COUNTY	7	1	-	-	-	1	-	-	3	-	-	-	-	1	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	1	-	-	3	-	-	-	-	1	-	1	-	-	-	-	-	-
CHERRY COUNTY	9	-	-	-	-	1	-	-	3	1	-	-	-	2	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	9	-	-	-	-	1	-	-	3	1	-	-	-	2	-	-	2	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
CHEYENNE COUNTY	11	1	-	-	-	-	-	-	2	-	-	-	-	1	1	-	5	-	-	-	1	-
1 TO 19 EMPLOYEES	7	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-
CLAY COUNTY	5	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	2	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
COLFAX COUNTY	14	5	-	-	-	-	-	-	5	-	-	-	-	2	-	-	-	-	1	-	-	1
1 TO 19 EMPLOYEES	12	3	-	-	-	-	-	-	5	-	-	-	-	2	-	-	-	-	1	-	-	1
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUMING COUNTY	12	6	-	-	-	-	-	-	2	-	-	-	-	2	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	8	3	-	-	-	-	-	-	2	-	-	-	-	1	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUSTER COUNTY	15	1	-	1	-	-	-	-	5	-	-	-	-	5	-	1	1	-	-	1	-	-
1 TO 19 EMPLOYEES	12	1	-	1	-	-	-	-	4	-	-	-	-	5	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
OAKOTA COUNTY	21	5	-	-	-	2	-	-	3	-	-	-	-	2	1	2	4	1	-	-	-	1
1 TO 19 EMPLOYEES	13	1	-	-	-	1	-	-	3	-	-	-	-	2	-	2	3	1	-	-	-	-
20 TO 99 EMPLOYEES	6	3	-	-	-	1	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
OAWES COUNTY	10	2	-	-	-	1	-	-	4	-	-	-	-	2	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	7	2	-	-	-	-	-	-	2	-	-	-	-	2	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
OAWSON COUNTY	49	31	-	-	-	-	-	-	6	-	-	1	-	1	-	-	4	4	2	-	-	-
1 TO 19 EMPLOYEES	28	19	-	-	-	-	-	-	6	-	-	-	-	-	-	-	1	1	1	-	-	-
20 TO 99 EMPLOYEES	16	11	-	-	-	-	-	-	-	-	-	1	-	1	-	-	2	1	-	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
OEUEL COUNTY	4	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
OIXON COUNTY	5	1	-	-	-	2	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OODGE COUNTY	65	23	-	-	2	4	1	1	8	3	-	1	-	6	1	2	6	1	4	-	2	-
1 TO 19 EMPLOYEES	39	13	-	-	1	3	-	-	6	2	-	1	-	6	-	-	4	-	1	-	2	-
20 TO 99 EMPLOYEES	20	8	-	-	-	1	1	1	2	1	-	-	-	-	-	1	1	1	3	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OOUGLAS COUNTY	560	84	-	1	16	19	14	11	119	29	4	14	4	35	10	48	61	15	9	12	32	23
1 TO 19 EMPLOYEES	348	30	-	1	13	15	6	3	90	17	2	9	2	21	4	33	45	8	5	7	26	11
20 TO 99 EMPLOYEES	150	39	-	-	2	4	5	4	25	8	1	3	2	13	2	10	11	4	2	4	3	8
100 TO 249 EMPLOYEES	41	7	-	-	-	-	2	4	3	4	1	2	-	1	2	4	2	2	1	1	2	3
250 EMPLOYEES AND OVER	21	8	-	-	1	-	1	-	1	-	-	-	-	-	2	1	3	1	1	-	1	1
OUNDY COUNTY	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FILLMORE COUNTY	8	3	-	-	-	-	-	-	1	1	-	-	-	1	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	8	3	-	-	-	-	-	-	1	1	-	-	-	1	-	-	2	-	-	-	-	-
FRANKLIN COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
FRONTIER COUNTY	3	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
FURNAS COUNTY	16	3	-	-	-	1	-	-	2	-	-	1	-	2	-	3	4	-	-	-	-	-
1 TO 19 EMPLOYEES	14	2	-	-	-	1	-	-	2	-	-	1	-	2	-	2	4	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
GAGE COUNTY	22	4	-	-	2	2	2	-	4	2	-	-	-	3	-	2	1	-	-	-	-	-
1 TO 19 EMPLOYEES	10	2	-	-	1	2	1	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	8	2	-	-	-	-	-	-	1	2	-	-	-	2	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
GARDEN COUNTY	5	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-	1	-	1	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
GARFIELD COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
GOSPER COUNTY	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	1	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	1	-
GRANT COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
GREELEY COUNTY	4	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
HALL COUNTY	73	16	-	-	2	6	1	-	11	2	-	2	-	6	-	6	10	1	-	1	5	4
1 TO 19 EMPLOYEES	44	6	-	-	2	4	1	-	10	2	-	-	-	3	-	2	6	1	-	1	2	4
20 TO 99 EMPLOYEES	21	7	-	-	-	2	-	-	1	-	-	1	-	3	-	3	1	-	-	-	3	-
100 TO 249 EMPLOYEES	5	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
HAMILTON COUNTY	12	3	-	-	-	1	-	-	1	1	-	-	1	1	-	1	1	1	-	1	-	-
1 TO 19 EMPLOYEES	10	3	-	-	-	-	-	-	1	1	-	-	1	1	-	1	1	1	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARLAN COUNTY	4	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
HAYES COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
HITCHCOCK COUNTY	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	2	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
HOLT COUNTY	12	1	-	-	-	2	-	-	3	-	-	-	-	3	-	-	2	-	-	-	1	-
1 TO 19 EMPLOYEES	10	-	-	-	-	2	-	-	3	-	-	-	-	3	-	-	1	-	-	-	1	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
HOOKER COUNTY	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
HOWARD COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
JEFFERSON COUNTY	13	3	-	-	1	1	-	-	2	-	-	-	-	4	-	-	1	-	1	-	-	-
1 TO 19 EMPLOYEES	8	1	-	-	-	1	-	-	1	-	-	-	-	3	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JOHNSON COUNTY	5	2	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KEARNEY COUNTY	10	2	-	-	-	-	-	-	3	-	-	1	-	-	-	-	3	-	1	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	-	-	-	-	3	-	-	1	-	-	-	-	3	-	1	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KEITH COUNTY	16	1	-	-	1	-	-	-	4	-	-	-	-	3	-	-	2	3	-	-	2	-
1 TO 19 EMPLOYEES	13	1	-	-	1	-	-	-	4	-	-	-	-	3	-	-	2	-	-	-	2	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-

See footnotea at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
KEYA PAHA COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
KIMBALL COUNTY	11	1	-	-	-	-	-	-	3	-	-	-	-	-	-	2	3	2	-	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	-	-	-	-	3	-	-	-	-	-	-	2	2	1	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-
KNOX COUNTY	15	4	-	-	-	-	-	-	5	-	-	1	-	2	-	-	3	-	-	-	-	-
1 TO 19 EMPLOYEES	15	4	-	-	-	-	-	-	5	-	-	1	-	2	-	-	3	-	-	-	-	-
LANCASTER COUNTY	217	22	-	1	4	10	9	5	56	6	-	9	1	11	2	18	20	9	8	9	6	11
1 TO 19 EMPLOYEES	142	8	-	-	4	8	8	3	44	4	-	6	1	6	1	6	16	4	5	6	5	7
20 TO 99 EMPLOYEES	48	6	-	-	-	1	-	2	9	-	-	2	-	5	1	9	3	2	1	2	1	4
100 TO 249 EMPLOYEES	14	6	-	-	-	1	1	-	1	1	-	-	-	-	-	2	-	2	-	-	-	-
250 EMPLOYEES AND OVER	13	2	-	1	-	-	-	-	2	1	-	1	-	-	-	1	1	1	2	1	-	-
LINCOLN COUNTY	25	9	-	-	-	3	-	-	5	-	-	1	-	-	-	1	4	-	-	-	2	-
1 TO 19 EMPLOYEES	20	6	-	-	-	2	-	-	4	-	-	1	-	-	-	1	4	-	-	-	2	-
20 TO 99 EMPLOYEES	5	3	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
LOGAN COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
MADISON COUNTY	52	18	-	-	1	2	-	-	8	1	-	-	-	4	2	3	9	1	1	1	-	1
1 TO 19 EMPLOYEES	32	8	-	-	1	2	-	-	6	1	-	-	-	2	1	2	7	-	1	-	-	1
20 TO 99 EMPLOYEES	13	9	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-
MERRICK COUNTY	9	1	-	-	-	2	-	-	2	-	-	-	-	3	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	8	1	-	-	-	1	-	-	2	-	-	-	-	3	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORRILL COUNTY	8	1	-	-	-	-	-	-	2	1	-	-	-	2	-	-	-	-	1	-	1	-
1 TO 19 EMPLOYEES	7	-	-	-	-	-	-	-	2	1	-	-	-	2	-	-	-	-	1	-	1	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NANCE COUNTY	5	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	5	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-
NEMAHA COUNTY	9	1	-	-	1	2	-	-	1	-	-	-	-	2	1	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	1	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NUCKOLLS COUNTY	8	3	-	-	-	-	-	-	2	1	-	-	-	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	2	1	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
OTOE COUNTY	18	5	-	-	4	-	-	-	3	-	-	1	-	2	-	-	1	1	-	1	-	-
1 TO 19 EMPLOYEES	7	2	-	-	1	-	-	-	1	-	-	-	-	1	-	-	1	1	-	-	-	-
20 TO 99 EMPLOYEES	8	2	-	-	2	-	-	-	2	-	-	1	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAWNEE COUNTY	3	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PERKINS COUNTY	2	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
PHELPS COUNTY	13	2	-	1	-	-	-	-	4	-	-	-	-	1	-	-	1	1	-	1	2	-
1 TO 19 EMPLOYEES	9	2	-	-	-	-	-	-	3	-	-	-	-	1	-	-	1	-	-	-	2	-
20 TO 99 EMPLOYEES	3	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
PIERCE COUNTY	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixturea; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
PLATTE COUNTY.	51	7	-	-	-	1	-	1	8	1	-	2	-	3	-	7	12	2	2	1	3	1
1 TO 19 EMPLOYEES.	30	3	-	-	-	1	-	1	7	1	-	1	-	2	-	4	5	-	2	-	3	-
20 TO 99 EMPLOYEES	14	4	-	-	-	-	-	-	1	-	-	1	-	1	-	1	5	1	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
250 EMPLOYEES AND OVER . . .	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	-	1	-	-
POLK COUNTY.	5	1	-	-	-	-	-	-	2	1	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	4	1	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
REO WILLOW COUNTY.	15	5	-	-	-	-	-	-	2	-	-	1	-	1	-	-	2	1	1	2	-	-
1 TO 19 EMPLOYEES.	8	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	1	1	-	-
20 TO 99 EMPLOYEES	5	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER . . .	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
RICHARDSON COUNTY.	16	4	-	-	-	1	-	-	3	-	-	-	-	2	-	1	3	-	1	-	1	-
1 TO 19 EMPLOYEES.	11	2	-	-	-	-	-	-	2	-	-	-	-	2	-	1	3	-	-	-	1	-
20 TO 99 EMPLOYEES	4	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROCK COUNTY.	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES.	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
SALINE COUNTY.	16	5	-	-	1	2	-	-	3	-	-	-	-	-	-	3	1	-	-	-	-	1
1 TO 19 EMPLOYEES.	8	-	-	-	-	2	-	-	3	-	-	-	-	-	-	2	1	-	-	-	-	-
20 TO 99 EMPLOYEES	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER . . .	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
SARPY COUNTY	38	2	-	-	1	2	2	2	8	2	-	2	1	7	1	2	1	2	1	-	1	1
1 TO 19 EMPLOYEES.	31	-	-	-	1	2	2	1	7	1	-	2	-	6	1	2	1	2	1	-	1	1
20 TO 99 EMPLOYEES	6	2	-	-	-	-	-	1	1	-	-	-	1	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
SAUNDERS COUNTY.	22	4	-	-	-	1	-	-	5	-	-	1	-	2	-	2	7	-	-	-	-	-
1 TO 19 EMPLOYEES.	15	1	-	-	-	-	-	-	4	-	-	1	-	1	-	2	6	-	-	-	-	-
20 TO 99 EMPLOYEES	7	3	-	-	-	1	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
SCOTTS BLUFF COUNTY. . . .	59	15	-	-	2	3	1	1	9	1	1	-	-	6	1	5	10	2	-	-	1	1
1 TO 19 EMPLOYEES.	38	7	-	-	1	1	-	1	8	1	-	-	-	4	1	3	9	-	-	-	1	1
20 TO 99 EMPLOYEES	12	2	-	-	1	2	1	-	1	-	1	-	-	2	-	1	-	1	-	-	-	-
100 TO 249 EMPLOYEES	8	6	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
250 EMPLOYEES AND OVER . . .	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
SEWARD COUNTY.	14	1	-	-	-	1	-	-	5	1	-	-	-	4	-	-	-	-	1	-	1	-
1 TO 19 EMPLOYEES.	12	1	-	-	-	-	-	-	5	1	-	-	-	4	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER . . .	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
SHERIDAN COUNTY.	11	7	-	-	-	-	-	-	2	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	10	6	-	-	-	-	-	-	2	-	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHERMAN COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES.	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
STANTON COUNTY	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
THAYER COUNTY.	11	1	-	-	-	-	-	-	4	1	-	-	-	2	-	-	2	-	-	-	1	-
1 TO 19 EMPLOYEES.	9	1	-	-	-	-	-	-	4	1	-	-	-	2	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
THOMAS COUNTY.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
THURSTON COUNTY.	12	2	-	-	-	1	-	-	2	-	-	-	-	-	-	-	6	-	1	-	-	-
1 TO 19 EMPLOYEES.	9	2	-	-	-	1	-	-	2	-	-	-	-	-	-	-	3	-	1	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																		
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
VALLEY COUNTY	6	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
WASHINGTON COUNTY	21	7	-	-	-	-	-	-	2	-	-	1	-	1	-	2	7	-	-	-	1	-
1 TO 19 EMPLOYEES	18	7	-	-	-	-	-	-	2	-	-	1	-	1	-	1	5	-	-	-	1	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
WAYNE COUNTY	9	1	-	-	-	-	-	-	3	-	-	1	-	-	-	2	2	-	-	-	-	-
1 TO 19 EMPLOYEES	7	-	-	-	-	-	-	-	2	-	-	1	-	-	-	2	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
WEBSTER COUNTY	5	2	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	2	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
YORK COUNTY	30	4	-	-	1	3	-	1	5	-	-	1	-	2	1	5	6	-	1	-	-	-
1 TO 19 EMPLOYEES	21	2	-	-	1	1	-	1	4	-	-	1	-	2	-	3	5	-	1	-	-	-
20 TO 99 EMPLOYEES	7	1	-	-	-	1	-	-	1	-	-	-	-	-	1	2	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

Nevada

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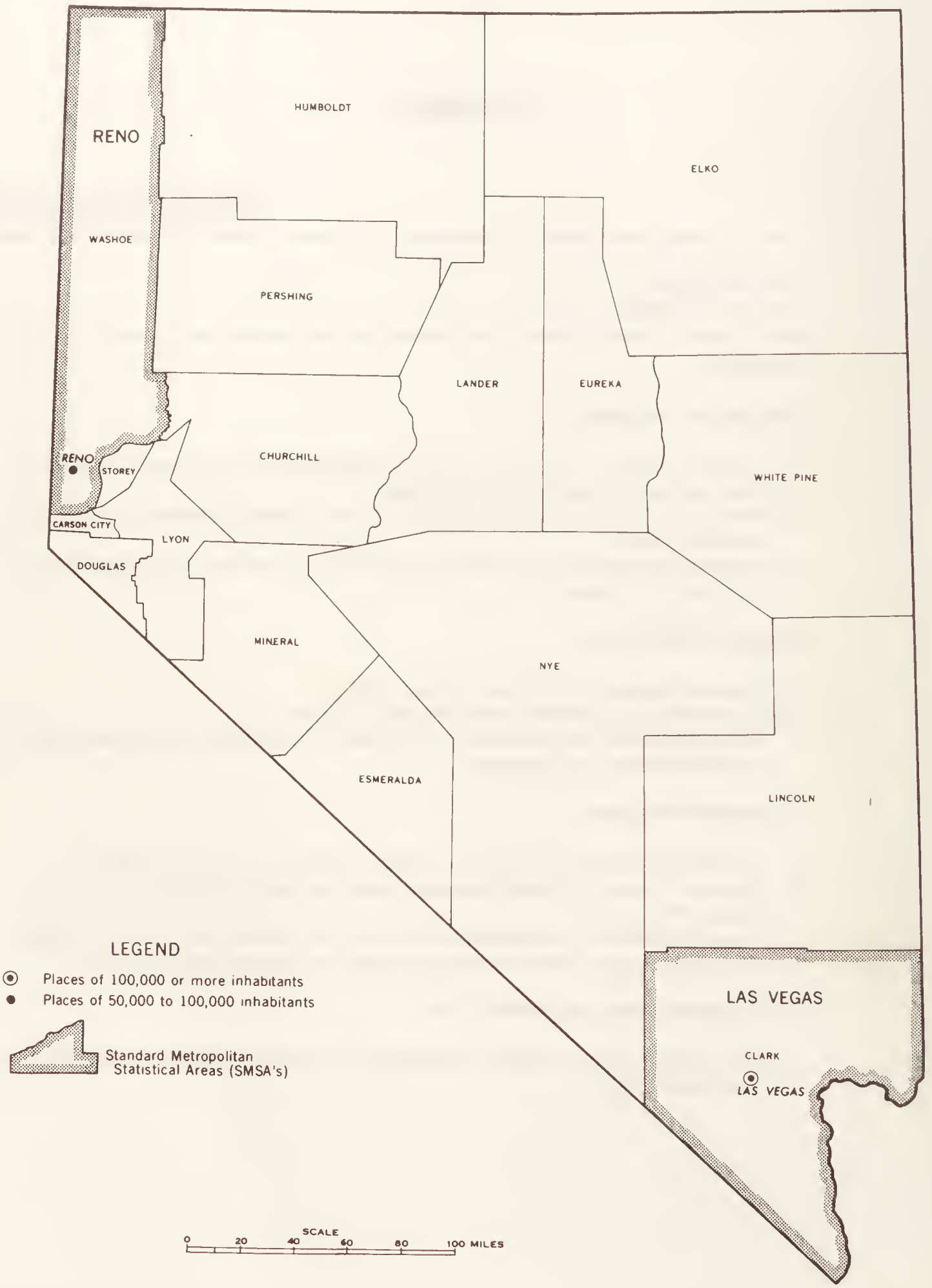
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NEVADA



U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 15.0 thousand persons were employed in Nevada's manufacturing establishments. This figure represented an increase of 50 percent from the 1972 figure of 10.0 thousand workers.

The total value added by manufacture for the State amounted to $495 million in 1977, an increase of approximately 138 percent from the 1972 figure of $208 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were printing and publishing; stone, clay, and glass products; electric and electronic equipment; and food and kindred products. They accounted for approximately 47 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 51 percent of the State's employment.

The most important counties in the State ranked by employment were Washoe, Clark, Carson City (independent city), and Douglas. They accounted for approximately 88 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Clark, Washoe, Carson City (independent city), and Douglas accounted for approximately 76 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 13 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Nevada:						
1977	15.0	191.6	14.5	184.9	0.5	6.7
1972	10.0	91.7	9.6	87.6	0.4	4.1
1967	7.0	49.6	7.0	49.1	(Z)	.5
1963	6.8	42.2	(D)	(D)	(D)	(D)
STANDARD METROPOLITAN STATISTICAL AREAS						
Las Vegas:						
1977	5.4	72.9	(D)	(D)	(D)	(D)
1972	4.3	40.3	(D)	(D)	(D)	(D)
1967	3.9	28.4	3.9	28.4	-	-
1963	3.9	24.9	3.9	24.9	-	-
Reno:						
1977	6.8	85.8	(D)	(D)	(D)	(D)
1972	3.5	31.3	(D)	(D)	(D)	(D)
1967	2.1	14.7	(D)	(D)	(D)	(D)
1963	2.1	12.8	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
	NEVADA														
1977 CENSUS.	729	147	15.0	191.6	10.0	19.3	113.4	495.2	461.0	942.0	46.4	.08	100	100	19 596.9
1976 ASM[4]...	(NA)	(NA)	13.6	144.4	7.7	14.4	86.9	354.2	371.1	724.8	53.0	.07	90	96	18 753.0
1975 ASM....	(NA)	(NA)	11.3	127.2	7.8	14.1	78.1	313.0	331.6	638.4	28.5	.06	75	94	18 302.2
1974 ASM....	(NA)	(NA)	11.6	115.3	8.1	15.3	72.6	309.0	343.0	640.2	24.3	.06	77	102	19 844.8
1973 ASM....	(NA)	(NA)	11.0	98.9	7.8	14.8	63.1	223.9	292.5	519.9	12.7	.06	73	102	19 897.9
1972 CENSUS.	447	104	10.0	91.7	6.9	13.5	57.2	207.7	222.1	423.4	23.5	.05	66	98	19 028.7
1971 ASM....	(NA)	(NA)	7.5	64.6	5.3	10.5	40.3	145.9	163.3	307.4	21.7	.04	50	94	18 363.1
1970 ASM....	(NA)	(NA)	8.3	68.2	6.0	11.7	43.1	158.8	168.6	323.5	13.0	.04	55	99	19 217.2
1969 ASM....	(NA)	(NA)	7.9	62.2	5.8	11.1	39.6	161.8	159.6	322.5	16.5	.04	53	103	20 035.5
1968 ASM....	(NA)	(NA)	6.9	51.2	4.9	9.3	32.0	143.7	134.5	276.0	14.2	.04	46	100	19 527.6
1967 CENSUS.	330	74	7.0	49.6	4.8	9.3	31.2	133.8	117.2	250.0	15.4	.04	47	99	19 323.2
1966 ASM....	(NA)	(NA)	6.4	44.8	4.4	8.8	28.1	114.2	131.1	245.6	6.3	.03	43	98	19 024.5
1965 ASM....	(NA)	(NA)	6.9	44.2	4.9	9.8	28.8	108.1	125.0	230.7	17.2	.04	46	92	18 010.2
1964 ASM....	(NA)	(NA)	6.5	42.4	4.6	9.5	27.9	113.8	120.2	234.5	8.2	.04	43	89	17 268.5
1963 CENSUS.	283	73	6.8	42.2	4.8	9.5	28.4	106.3	(NA)	(NA)	8.7	.04	45	87	16 958.4

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

[4]Standard error exceeds 15 percent. Data should be used with caution.

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	NEVAOA								
1977 CENSUS.....	12 738	66	1 938	5.88	49	69	32 920	39	25.68
1976 ASM[4].....	10 618	57	1 870	6.03	51	71	26 044	41	24.60
1975 ASM.....	11 257	69	1 808	5.54	52	72	27 699	41	22.20
1974 ASM.....	9 940	70	1 889	4.75	54	72	26 638	37	20.20
1973 ASM.....	8 991	71	1 897	4.26	56	75	20 355	44	15.13
1972 CENSUS.....	9 170	69	1 957	4.24	52	74	20 770	44	15.39
1971 ASM.....	8 613	71	1 981	3.84	53	74	19 453	44	13.90
1970 ASM.....	8 217	72	1 950	3.68	52	73	19 133	43	13.57
1969 ASM.....	7 873	73	1 914	3.57	49	69	20 481	38	14.58
1968 ASM.....	7 420	71	1 898	3.44	49	67	20 826	36	15.45
1967 CENSUS.....	7 086	69	1 938	3.35	47	67	19 114	37	14.39
1966 ASM.....	7 000	69	2 000	3.19	53	72	17 844	39	12.98
1965 ASM.....	6 406	71	2 000	2.94	54	73	15 667	41	11.03
1964 ASM.....	6 523	71	2 065	2.94	51	69	17 508	37	11.98
1963 CENSUS.....	6 206	71	1 979	2.99	(NA)	(NA)	15 632	40	11.19

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	729	447
With 1 to 19 employees	do	582	338
With 20 to 99 employees	do	112	86
With 100 employees or more	do	35	23
All employees, average for year[1]	1,000	15.0	10.0
Payroll for year, all employees[1]	mil. dollars	191.6	91.7
Production workers:			
Average for year	1,000	10.0	6.9
March	do	9.7	6.5
May	do	9.9	6.8
August	do	10.0	7.3
November	do	10.2	7.2
Hours	millions	19.3	13.5
January to March	do	4.7	3.0
April to June	do	4.9	3.4
July to September	do	4.8	3.6
October to December	do	4.9	3.5
Wages	mil. dollars	113.4	57.2
Cost of materials, etc.[2]	do	461.0	222.1
Materials, parts, containers, etc., consumed	do	371.5	187.5
Resales	do	44.6	14.4
Fuels consumed	do	20.5	8.2
Purchased electric energy	do	14.0	6.5
Contract work	do	10.4	5.5
Value of shipments, including resales[2]	do	942.0	423.4
Value of resales	do	49.4	18.8
Value added by manufacture	do	495.2	207.7
Manufacturers' inventories:			
Beginning of year	do	136.1	63.5
Finished products	do	34.6	21.8
Work in process	do	48.1	18.2
Materials, supplies, fuel, etc.	do	53.4	23.4
End of year	do	161.7	65.7
Finished products	do	45.3	21.4
Work in process	do	51.6	23.1
Materials, supplies, fuel, etc.	do	64.8	21.2
Capital expenditures for plant and equipment	do	48.6	24.6
New capital expenditures	do	46.4	23.5
New buildings and other structures	do	11.4	4.0
New machinery and equipment	do	35.0	19.5
Used capital expenditures	do	2.2	1.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total	9.6	11
Beginning of year	332.4	4	Buildings and other structures	5.1	7
New capital expenditures	48.8	13	Machinery and equipment	(4.5)	21
Used capital expenditures	(3.8)	51			
Retirements	13.4	7	Depreciation charges during 1977:		
End of year	371.6	4	Total	26.6	3
			Buildings and other structures	3.3	8
Buildings and other structures:			Machinery and equipment	23.2	3
Beginning of year	72.6	6			
New capital expenditures	(12.5)	29			
Used capital expenditures	(.1)	86	Supplemental labor costs:		
Retirements	3.1	5	Total	32.8	5
End of year	82.1	7	Legal costs	16.5	3
			Voluntary costs	16.3	8
Machinery and equipment:					
Beginning of year	259.7	4			
New capital expenditures	36.3	10	Purchased services:		
Automobiles, trucks, etc., for highway use	5.9	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	1.2	(NA)	Buildings and other structures	(.4)	75
All other	21.5	(NA)	Response coverage ratio (percent)	60	(X)
New machinery and equipment, n.s.k.	7.7	(NA)	Machinery	(5.6)	33
Used capital expenditures	(3.7)	51	Response coverage ratio (percent)	59	(X)
Retirements	10.3	8	Cost of purchased communication services	(1.4)	55
End of year	289.5	3	Response coverage ratio (percent)	57	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Nevada	E1	**729**	**147**	**15.0**	**191.6**	**10.0**	**19.3**	**113.4**	**495.2**	**461.0**	**942.0**	**46.4**	**10.0**	**207.7**
STANDARD METROPOLITAN STATISTICAL AREAS														
Las Vegas	–	285	52	5.4	72.9	3.6	6.9	45.7	166.5	184.3	354.7	16.4	4.3	94.9
Reno	E1	303	73	6.8	85.8	4.4	8.7	47.3	238.0	192.0	418.6	22.7	3.5	71.0
COUNTIES														
Churchill	–	12	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clark	E1	285	52	5.4	72.9	3.6	6.9	45.7	166.5	184.3	354.7	16.4	4.3	94.9
Douglas	–	15	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.6
Elko	E4	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Esmeralda	–	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Humboldt	–	7	2	0.1	1.4	0.1	0.2	1.0	3.0	3.4	6.4	0.2	(Z)	(NA)
Lander	–	2	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Lincoln	E0	2	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lyon	E2	9	1	0.2	3.6	0.2	0.3	2.6	7.9	11.7	19.1	(D)	0.3	6.8
Mineral	E8	4	–	(Z)	0.1	(Z)	(Z)	(Z)	0.1	0.1	0.2	(D)	(D)	(D)
Nye	E0	2	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Pershing	E2	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Storey	E0	4	–	(Z)	0.1	(Z)	(Z)	(Z)	0.1	0.1	0.3	(Z)	(D)	(D)
Washoe	–	303	73	6.8	85.8	4.4	8.7	47.3	238.0	192.0	418.6	22.7	3.5	71.0
White Pine	–	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Carson City (independent city)	E1	58	10	1.0	10.4	0.7	1.3	6.0	23.6	18.6	42.2	2.4	0.5	8.2
CITIES														
Carson City	E1	58	10	1.0	10.4	0.7	1.3	6.0	23.6	18.6	42.2	2.4	(NA)	(NA)
Henderson	–	28	10	1.9	28.5	1.3	2.7	19.2	68.2	91.1	163.5	8.8	0.8	29.1
Las Vegas	E1	150	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	33.3
Reno	E2	163	40	4.0	49.8	2.5	5.0	26.3	140.5	84.0	214.2	11.1	2.0	42.3
Sparks	E1	114	28	2.3	28.5	1.5	2.8	15.4	79.9	90.1	168.9	10.1	0.7	15.9

– Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all menufacturing industries includes extensive duplicetion, since products of some industries are used as materials by others (see eppendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollers)	Value edded by menufacture (million dollars)	Cost of materials[3] (million dollers)	Velue of shipments[3] (million dollars)	New capital expenditures (million dollers)	All employees[2] (1,000)	Value added by manufecture (million dollers)
	All industries	–	**729**	**147**	**15.0**	**191.6**	**10.0**	**19.3**	**113.4**	**495.2**	**461.0**	**942.0**	**46.4**	**10.0**	**207.7**
20	**Food and kindred products**	–	**49**	**18**	**1.4**	**18.3**	**0.8**	**1.5**	**8.7**	**66.3**	**104.9**	**171.2**	**6.2**	**1.4**	**30.0**
202	Dairy products	–	4	3	0.2	3.7	0.1	0.2	1.2	7.7	23.2	30.9	(D)	0.4	8.1
2026	Fluid milk	–	4	3	0.2	3.7	0.1	0.2	1.2	7.7	23.2	30.9	(D)	0.4	8.1
204	Grain mill products	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2047	Dog, cat, and other pet food	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
205	Bakery products	E2	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2051	Bread, cake, and related products	E2	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
208	Beverages	–	10	6	0.4	5.0	0.1	0.2	1.0	15.3	21.0	36.3	1.9	0.3	6.3
2086	Bottled and canned soft drinks	–	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	6.3
209	Miscellaneous foods end kindred products	E1	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.3
2099	Food preparations, n.e.c.	E1	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
23	**Apparel and other textile products**	**E1**	**25**	**2**	**0.2**	**1.3**	**0.2**	**0.3**	**0.8**	**2.6**	**3.2**	**6.0**	**(D)**	**(NA)**	**(NA)**
239	Miscellaneous fabricated textile products	E1	16	2	0.2	1.2	0.1	0.2	0.7	2.3	3.0	5.5	(D)	(NA)	(NA)
2391	Curtains and draperies	E1	11	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
24	**Lumber and wood products**	**E2**	**45**	**6**	**0.6**	**6.7**	**0.5**	**1.0**	**5.4**	**11.1**	**15.0**	**25.9**	**0.8**	**0.4**	**4.4**
243	Millwork, plywood, and structural members	E2	23	5	0.5	4.6	0.4	0.7	3.7	7.9	10.1	17.9	0.3	0.2	2.6
2434	Wood kitchen cabinets	E2	13	3	0.3	2.8	0.2	0.4	2.3	4.4	3.9	8.3	0.1	AA	(D)
2439	Structural wood members, n.e.c.	E4	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
25	**Furniture and fixtures**	**E3**	**24**	**5**	**0.3**	**3.4**	**0.3**	**0.5**	**2.5**	**6.8**	**5.6**	**12.1**	**(D)**	**0.2**	**2.6**
251	Household furniture	E1	12	2	0.2	1.5	0.2	0.3	1.2	3.4	3.0	6.3	(D)	0.2	2.1
27	**Printing and publishing**	**E1**	**141**	**19**	**2.1**	**22.7**	**1.4**	**2.5**	**13.9**	**56.3**	**24.5**	**80.5**	**2.6**	**1.5**	**28.1**
2711	Newspapers	–	38	8	1.0	10.4	0.6	1.1	6.5	30.3	9.9	40.1	1.1	1.0	18.6
275	Commercial printing	E1	76	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.6
2751	Commercial printing, letterpress	E2	50	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2752	Commercial printing, lithographic	E1	24	4	0.3	3.5	0.3	0.5	2.7	6.7	3.5	9.8	0.2	(NA)	(NA)
28	**Chemicals and allied products**	**–**	**27**	**10**	**0.9**	**15.1**	**0.6**	**1.3**	**9.3**	**55.7**	**52.2**	**109.8**	**8.4**	**0.8**	**35.5**
281	Industrial inorganic chemicals	–	9	4	0.5	8.5	0.3	0.7	5.2	30.9	30.9	63.2	5.8	0.5	16.3
2812	Alkalies and chlorine	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2819	Industrial inorganic chemicals, n.e.c.	–	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
286	Industrial organic chemicals	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
30	**Rubber and miscellaneous plastics products**	**E1**	**22**	**4**	**0.5**	**5.2**	**0.4**	**0.7**	**3.0**	**11.7**	**10.5**	**21.2**	**0.7**	**(NA)**	**(NA)**
3079	Miscellaneous plastics products	E2	21	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
32	**Stone, clay, and glass products**	**–**	**72**	**21**	**1.7**	**26.3**	**1.1**	**2.3**	**17.3**	**62.1**	**66.4**	**127.9**	**6.7**	**1.4**	**35.8**
3241	Cement, hydraulic	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
327	Concrete, gypsum, and plaster products	–	53	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	27.5
3273	Ready-mixed concrete	–	28	9	0.6	11.7	0.3	0.6	6.1	27.0	24.8	51.8	2.4	0.5	12.9
3275	Gypsum products	–	3	3	0.4	6.0	0.3	0.7	4.9	13.9	18.5	32.5	1.7	0.4	7.5
329	Miscellaneous nonmetallic mineral products	–	8	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3293	Gaskets, packing, and sealing devices	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
33	**Primary metal industries**	**–**	**12**	**3**	**1.1**	**17.1**	**0.8**	**1.4**	**11.7**	**41.3**	**61.9**	**99.4**	**(D)**	**EE**	**(D)**
333	Primary nonferrous metals	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3331	Primary copper	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
335	Nonferrous rolling and drawing	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3356	Nonferrous rolling and drawing, n.e.c.	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
34	**Fabricated metal products**	**E4**	**63**	**10**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**0.5**	**11.3**
344	Fabricated structural metal products	E2	20	5	0.3	4.1	0.2	0.3	2.0	11.7	8.4	19.6	0.2	0.2	4.5
346	Metal forgings and stampings	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3463	Nonferrous forgings	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	E1	14	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3494	Valves and pipe fittings	E4	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
35	**Machinery, except electrical**	**E1**	**68**	**7**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**0.6**	**9.1**
353	Construction and related machinery	E1	11	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
355	Special industry machinery	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3551	Food products machinery	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E3	37	2	0.2	2.3	0.2	0.3	1.6	4.4	2.4	6.7	0.6	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E3	37	2	0.2	2.3	0.2	0.3	1.6	4.4	2.4	6.7	0.6	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
36	**Electric and electronic equipment**	**E2**	**37**	**9**	**1.8**	**21.2**	**1.2**	**2.3**	**11.5**	**60.8**	**46.7**	**101.7**	**4.3**	**0.8**	**12.5**
363	Household appliances	–	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3639	Household appliances, n.e.c.	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
366	Communication equipment	E3	7	4	1.2	14.8	0.7	1.3	7.2	45.9	25.7	66.0	(D)	BB	(D)
3661	Telephone and telegraph apparatus	E3	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3662	Radio and TV communication equipment	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
369	Miscellaneous electrical equipment and supplies	–	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
37	**Transportation equipment**	**E3**	**21**	**3**	**0.2**	**2.3**	**0.1**	**0.3**	**1.5**	**6.2**	**4.3**	**10.6**	**(D)**	**(NA)**	**(NA)**
38	**Instruments and related products**	–	**16**	**3**	**0.8**	**8.9**	**0.4**	**0.9**	**4.3**	**21.6**	**5.9**	**27.8**	**(D)**	**BB**	**(D)**
382	Measuring and controlling devices	–	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3825	Instruments to measure electricity	–	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
39	**Miscellaneous manufacturing industries**	**E2**	**69**	**16**	**1.0**	**10.6**	**0.8**	**1.5**	**6.8**	**26.3**	**13.2**	**39.5**	**3.3**	**0.4**	**7.2**
394	Toys and sporting goods	E1	19	2	0.3	3.0	0.3	0.5	2.2	7.6	3.6	11.5	(D)	(NA)	(NA)
3949	Sporting and athletic goods, n.e.c.	–	9	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
399	Miscellaneous manufactures	E2	32	12	0.6	6.4	0.4	0.8	3.8	15.9	7.7	23.2	(D)	AA	(D)
3993	Signs and advertising displays	–	13	6	0.3	4.2	0.2	0.4	2.5	10.6	2.5	12.8	(D)	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	E6	18	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
–	**Administrative and auxiliary**	–	**27**	**8**	**0.5**	**6.7**	**–**	**–**	**–**	**–**	**–**	**–**	**–**	**(NA)**	**(NA)**

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
– Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Las Vegas SMSA	–	**285**	**52**	**5.4**	**72.9**	**3.6**	**6.9**	**45.7**	**166.5**	**184.3**	**354.7**	**16.4**	**4.3**	**94.9**
20	Food and kindred products	E1	23	8	0.6	8.4	0.3	0.6	3.3	19.8	32.4	52.3	1.6	0.7	13.0
24	Lumber and wood products	E1	13	4	0.4	3.4	0.3	0.5	2.7	5.9	6.8	12.7	0.2	(NA)	(NA)
28	Chemicals and allied products	–	11	5	0.6	10.9	0.4	0.9	7.2	34.6	40.8	75.8	(D)	0.6	24.1
399	Miscellaneous manufactures	E2	15	6	0.3	4.1	0.2	0.5	2.5	9.9	3.4	13.0	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Reno SMSA	-	303	73	6.8	85.8	4.4	8.7	47.3	238.0	192.0	418.8	22.7	3.5	71.0
20	Food and kindred products	-	15	8	0.6	8.1	0.3	0.7	4.1	40.4	62.9	103.4	4.4	0.4	8.3
25	Furniture and fixtures	E2	10	4	0.3	2.7	0.2	0.4	2.0	5.3	4.1	9.1	0.3	(NA)	(NA)
39	Miscellaneous manufacturing industries	E1	31	6	0.5	4.5	0.4	0.7	3.1	11.9	6.4	18.6	0.9	(NA)	(NA)
--	Administrative and auxiliary	-	19	7	0.4	5.4	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Clark County (Coextensive with Las Vegas, Nev., SMSA; see table 6.)													
	Washoe County (Coextensive with Reno, Nev., SMSA; see table 6.)													
	Carson City (independent city)	-	58	10	1.0	10.4	0.7	1.3	6.0	23.6	18.6	42.2	2.4	0.5	8.2

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Carson City	-	58	10	1.0	10.4	0.7	1.3	6.0	23.6	18.6	42.2	2.4	(NA)	(NA)
	Henderson	-	28	10	1.9	28.5	1.3	2.7	19.2	68.2	91.1	163.5	8.8	0.8	29.1
	Reno	-	163	40	4.0	49.8	2.5	5.0	26.3	140.5	84.0	214.2	11.1	2.0	42.3
	Sparks	-	114	28	2.3	28.5	1.5	2.8	15.4	79.9	90.1	168.9	10.1	0.7	15.9

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NEVADA	729	49	-	3	25	45	24	3	141	27	2	22	3	72	12	63	68	37	21	16	69	27
1 TO 4 EMPLOYEES	369	16	-	1	15	19	10	-	92	6	2	12	2	27	6	34	43	22	14	8	34	6
5 TO 9 EMPLOYEES	117	4	-	-	6	12	6	1	12	8	-	3	-	16	2	11	10	3	2	4	10	7
10 TO 19 EMPLOYEES	96	11	-	1	2	8	3	-	18	3	-	3	1	8	1	8	8	3	2	1	9	6
20 TO 49 EMPLOYEES	78	8	-	1	1	3	4	2	8	3	-	1	-	13	-	7	2	3	1	2	14	5
50 TO 99 EMPLOYEES	34	8	-	-	1	1	-	-	6	4	-	1	-	2	1	1	2	2	2	-	-	3
100 TO 249 EMPLOYEES	27	2	-	-	-	2	1	-	3	3	-	2	-	6	-	2	3	1	-	-	2	-
250 TO 499 EMPLOYEES	5	-	-	-	-	-	-	-	2	-	-	-	-	-	1	-	-	2	-	-	-	-
500 TO 999 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-
CHURCHILL COUNTY	12	2	-	-	-	-	-	-	3	-	-	2	2	1	1	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	11	2	-	-	-	-	-	-	3	-	-	2	2	1	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
CLARK COUNTY	285	23	-	1	11	13	10	1	60	11	1	7	1	35	2	28	19	15	8	3	31	5
1 TO 19 EMPLOYEES.	233	15	-	1	10	9	9	1	53	6	1	7	1	23	1	27	19	13	8	3	22	4
20 TO 99 EMPLOYEES	39	7	-	-	1	2	1	-	5	2	-	-	-	10	-	1	-	1	-	-	8	1
100 TO 249 EMPLOYEES	10	1	-	-	-	2	-	-	1	3	-	-	-	2	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	1	-	-	-	-
DOUGLAS COUNTY	15	-	-	-	-	6	-	-	2	1	-	1	-	-	-	-	1	1	1	1	1	-
1 TO 19 EMPLOYEES.	13	-	-	-	-	5	-	-	2	1	-	1	-	-	-	-	1	1	1	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
ELKO COUNTY.	12	1	-	-	-	2	1	-	4	-	-	-	-	2	-	-	1	-	-	1	-	-
1 TO 19 EMPLOYEES.	10	1	-	-	-	2	1	-	3	-	-	-	-	2	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-
ESMERALDA COUNTY	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
HUMBOLDT COUNTY.	7	2	-	-	-	-	-	-	3	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	5	1	-	-	-	-	-	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
LANOER COUNTY.	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
LINCOLN COUNTY	2	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	2	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
LYON COUNTY.	9	2	-	-	-	-	-	-	1	-	-	-	-	4	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	8	2	-	-	-	-	-	-	1	-	-	-	-	3	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
MINERAL COUNTY	4	-	-	-	-	1	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	4	-	-	-	-	1	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-
NYE COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES.	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
PERSHING COUNTY.	6	1	-	-	-	1	-	-	1	-	-	-	-	-	1	-	1	1	-	-	-	-
1 TO 19 EMPLOYEES.	5	-	-	-	-	1	-	-	1	-	-	-	-	-	1	-	1	1	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOREY COUNTY.	4	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	4	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
WASHOE COUNTY.	303	15	-	2	14	17	10	2	53	7	1	8	-	17	4	29	39	18	10	7	31	19
1 TO 19 EMPLOYEES.	230	7	-	1	13	16	6	-	44	4	1	5	-	12	4	21	33	12	7	7	25	12
20 TO 99 EMPLOYEES	57	7	-	1	1	1	3	2	6	3	-	2	-	3	-	6	3	4	3	-	5	7
100 TO 249 EMPLOYEES	13	1	-	-	-	-	1	-	2	-	-	1	-	2	-	2	3	-	-	-	1	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-
WHITE PINE COUNTY.	7	-	-	-	-	2	-	-	1	1	-	-	-	1	1	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	5	-	-	-	-	2	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
CARSON CITY (INDEPENDENT C	58	1	-	-	-	3	3	-	7	4	-	4	-	9	3	4	4	2	2	4	5	3
1 TO 19 EMPLOYEES.	48	1	-	-	-	3	3	-	6	3	-	3	-	6	3	3	4	1	2	3	4	3
20 TO 99 EMPLOYEES	7	-	-	-	-	-	-	-	1	1	-	-	-	2	-	1	-	-	-	1	1	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-	-

Note: Dats on number of estsblishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Locstion of Msnufscturing Plants dsts series. This series is svailable only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes thst include dats for msnufscturing estsblishments are shown.

New Hampshire

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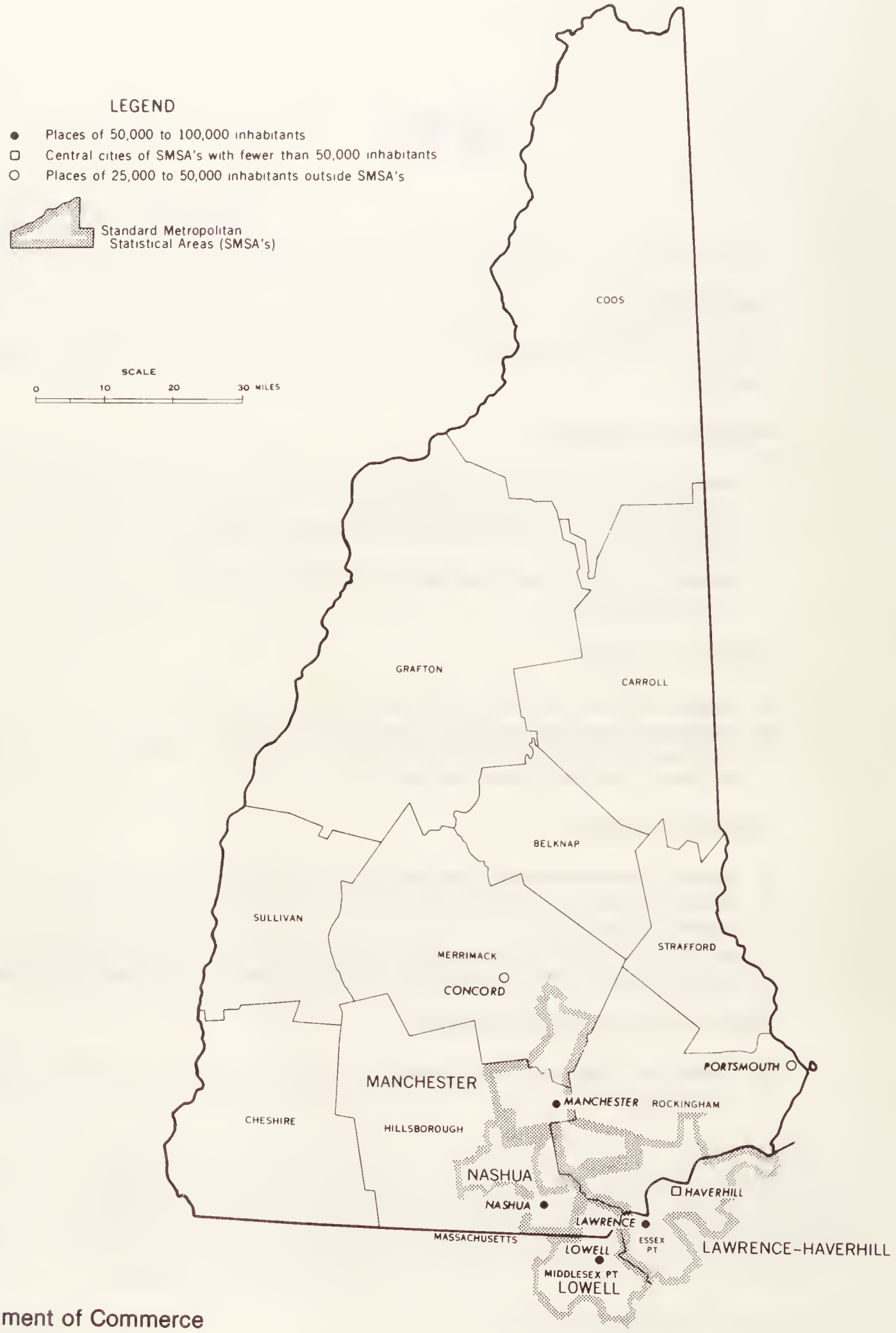
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NEW HAMPSHIRE



U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 95.3 thousand persons were employed in New Hampshire's manufacturing establishments. This figure represented an increase of 6 percent from the 1972 figure of 89.7 thousand workers.

The total value added by manufacture for the State amounted to $2,175 million in 1977, an increase of approximately 70 percent from the 1972 figure of $1,279 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were electronic equipment; machinery, except electrical; leather and leather products; and rubber and miscellaneous plastics products. They accounted for approximately 46 percent of the State's 1977 employment. The order has shifted from 1972 when industry groups leather and leather products; electronic equipment; machinery, except electrical; and textile mill products accounted for approximately 47 percent of the State's employment.

The most important counties in the State ranked by employment were Hillsborough, Strafford, Rockingham, and Merrimack. They accounted for approximately 71 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 73 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 1 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
New Hampshire:						
1977	95.3	1,029.0	94.2	1,008.1	1.1	20.9
1972	89.7	663.2	88.9	654.3	.8	8.9
1967	94.9	512.6	94.6	509.9	.3	2.7
1963	84.1	378.9	83.4	373.8	.7	5.1
STANDARD CONSOLIDATED STATISTICAL AREA						
Boston-Lawrence-Lowell, Mass.-N.H.:						
1977	341.6	4,609.0	313.0	4,039.7	28.6	569.3
1972	328.2	3,124.1	299.7	2,724.3	28.5	399.8
STANDARD METROPOLITAN STATISTICAL AREAS						
Lawrence-Haverhill, Mass.-N.H.:						
1977	38.1	466.6	37.4	449.8	.7	16.8
1972	39.3	337.1	38.3	322.9	1.0	14.2
1967	39.9	245.3	39.6	240.1	.4	5.2
1963	42.0	214.3	(D)	(D)	(D)	(D)
Lowell, Mass.-N.H.:						
1977	23.1	277.5	21.4	241.1	1.7	36.4
1972	22.4	187.0	20.6	162.1	1.8	24.9
1967	22.6	134.8	20.8	116.3	1.8	18.5
1963	21.1	102.6	(D)	(D)	(D)	(D)
Manchester:						
1977	17.8	173.4	17.5	166.4	.3	7.0
1972	18.4	124.3	(D)	(D)	(D)	(D)
1967	18.0	90.8	(D)	(D)	(D)	(D)
1963	16.9	71.9	(D)	(D)	(D)	(D)
Nashua:						
1977	19.7	258.9	19.5	255.6	.2	3.3
1972	18.4	165.0	18.4	165.0	-	-

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollsrs)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. msnufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
	NEW MAMPSHIRE														
1977 CENSUS.	1 825	623	95.3	1 029.0	72.0	138.0	645.3	2 174.7	1 893.7	4 032.3	162.0	.49	100	100	19 596.9
1976 ASM....	(NA)	(NA)	87.8	883.2	65.7	124.6	540.4	1 832.4	1 683.9	3 495.4	137.6	.47	92	96	18 753.0
1975 ASM....	(NA)	(NA)	83.4	795.3	62.3	118.2	483.5	1 587.1	1 428.7	3 046.3	97.2	.46	87	94	18 302.2
1974 ASM....	(NA)	(NA)	91.3	783.6	69.3	130.9	500.5	1 578.3	1 494.5	3 053.4	104.0	.46	96	102	19 844.8
1973 ASM....	(NA)	(NA)	93.4	735.8	70.1	134.4	452.6	1 462.3	1 228.6	2 642.6	102.0	.47	98	102	19 897.9
1972 CENSUS.	1 434	566	89.7	663.2	67.7	131.4	414.0	1 278.6	1 034.2	2 288.7	99.1	.47	94	98	19 028.7
1971 ASM....	(NA)	(NA)	81.9	576.4	60.0	117.4	356.2	1 088.7	926.3	2 021.2	79.7	.45	86	94	18 363.1
1970 ASM....	(NA)	(NA)	89.9	586.8	67.2	133.9	368.0	1 062.1	928.6	1 965.5	73.2	.47	94	99	19 217.2
1969 ASM....	(NA)	(NA)	94.4	567.7	75.9	149.8	394.4	1 006.8	921.9	1 929.8	102.4	.47	99	103	20 035.5
1968 ASM....	(NA)	(NA)	95.6	550.2	76.5	153.4	384.8	1 007.1	899.6	1 891.0	54.0	.49	100	100	19 527.6
1967 CENSUS.	1 481	566	94.9	512.6	76.6	151.0	364.3	931.9	802.8	1 716.8	75.6	.49	100	99	19 323.2
1966 ASM....	(NA)	(NA)	96.3	483.7	78.0	156.5	345.3	866.1	766.9	1 636.3	72.5	.51	101	98	19 024.5
1965 ASM....	(NA)	(NA)	90.8	435.6	74.1	148.9	314.1	782.9	716.4	1 485.1	39.8	.50	95	92	18 010.2
1964 ASM....	(NA)	(NA)	85.0	398.2	69.3	138.3	284.6	688.2	672.0	1 352.5	40.5	.49	89	89	17 268.5
1963 CENSUS.	1 509	546	84.1	378.9	68.6	135.1	271.8	636.1	(NA)	(NA)	30.3	.50	88	87	16 958.4
	BOSTON-LAWRENCE-LOWELL, MASS.-N.H., SCSA														
1977 CENSUS.	6 478	2 254	341.6	4 609.0	211.7	410.7	2 252.0	9 387.0	8 028.7	17 260.2	522.0	1.74	100	100	19 596.9
1972 CENSUS.	6 102	2 236		3 124.1	206.5	397.5	1 566.4	6 161.5	4 873.3	10 891.2	289.6	1.72	96	98	19 028.7

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of estsblishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for dsta prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufscturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	NEW HAMPSHIRE								
1977 CENSUS.....	10 795	75	1 918	4.68	47	72	22 815	47	15.76
1976 ASM.....	10 059	75	1 896	4.34	48	73	20 870	48	14.71
1975 ASM.....	9 536	75	1 897	4.09	47	73	19 030	50	13.43
1974 ASM.....	8 583	76	1 889	3.82	49	75	17 287	50	12.06
1973 ASM.....	7 878	75	1 917	3.37	46	74	15 656	50	10.88
1972 CENSUS.....	7 394	75	1 941	3.15	45	74	14 254	52	9.73
1971 ASM.....	7 038	73	1 957	3.03	46	74	13 293	53	9.27
1970 ASM.....	6 527	75	1 993	2.75	47	77	11 814	55	7.93
1969 ASM.....	6 014	80	1 974	2.63	48	77	10 665	56	6.72
1968 ASM.....	5 755	80	2 005	2.51	48	77	10 535	55	6.57
1967 CENSUS.....	5 401	81	1 971	2.41	47	77	9 820	55	6.17
1966 ASM.....	5 023	81	2 006	2.21	47	76	8 994	56	5.53
1965 ASM.....	4 797	82	2 009	2.11	48	78	8 622	56	5.26
1964 ASM.....	4 685	82	1 996	2.06	50	79	8 096	58	4.98
1963 CENSUS.....	4 505	82	1 969	2.01	(NA)	(NA)	7 564	60	4.71
	BOSTON-LAWRENCE-LOWELL, MASS.-N.H., SCSA								
1977 CENSUS.....	13 494	62	1 940	5.48	47	73	27 483	49	22.86
1972 CENSUS.....	9 519	63	1 925	3.94	45	73	18 774	51	15.50

Note: For qualifications to dsta, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	1 825	1 434
With 1 to 19 employees	do	1 202	868
With 20 to 99 employees	do	405	351
With 100 employees or more	do	218	215
All employees, average for year[1]	1,000	95.3	89.7
Payroll for year, all employees[1]	mil. dollars	1 029.0	663.2
Production workers:			
Average for year	1,000	72.0	67.7
March	do	69.6	65.7
May	do	71.4	67.0
August	do	73.0	69.1
November	do	73.6	69.0
Hours	millions	138.0	131.4
January to March	do	33.5	32.1
April to June	do	34.8	33.5
July to September	do	33.9	32.1
October to December	do	35.9	33.7
Wages	mil. dollars	645.3	414.0
Cost of materials, etc.[2]	do	1 893.7	1 034.2
Materials, parts, containers, etc., consumed	do	1 662.5	905.3
Resales	do	87.1	51.8
Fuels consumed	do	51.7	17.2
Purchased electric energy	do	41.9	18.1
Contract work	do	50.5	41.8
Value of shipments, including resales[2]	do	4 032.3	2 288.7
Value of resales	do	114.0	65.3
Value added by manufacture	do	2 174.7	1 278.6
Manufacturers' inventories:			
Beginning of year	do	575.8	315.2
Finished products	do	165.5	99.2
Work in process	do	195.3	114.0
Materials, supplies, fuel, etc.	do	215.0	102.0
End of year	do	635.6	350.7
Finished products	do	190.5	106.4
Work in process	do	208.2	127.8
Materials, supplies, fuel, etc.	do	237.0	116.5
Capital expenditures for plant and equipment	do	168.6	102.6
New capital expenditures	do	162.0	99.1
New buildings and other structures	do	39.5	30.7
New machinery and equipment	do	122.5	68.4
Used capital expenditures	do	6.6	3.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	1,240.4	1
New capital expenditures	161.7	7
Used capital expenditures	(8.3)	21
Retirements	50.8	10
End of year	1,359.5	1
Buildings and other structures:		
Beginning of year	366.3	3
New capital expenditures	(46.6)	17
Used capital expenditures	(3.6)	46
Retirements	9.4	10
End of year	407.0	5
Machinery and equipment:		
Beginning of year	874.1	1
New capital expenditures	115.0	4
Automobiles, trucks, etc., for highway use	2.6	(NA)
Computers and peripheral data processing equip.	2.6	(NA)
All other	89.8	(NA)
New machinery and equipment, n.s.k.	20.0	(NA)
Used capital expenditures	4.7	13
Retirements	41.4	10
End of year	952.5	1
Rental payments:		
Total	27.2	9
Buildings and other structures	10.7	10
Machinery and equipment	16.5	3
Depreciation charges during 1977:		
Total	92.7	3
Buildings and other structures	17.5	4
Machinery and equipment	75.2	3
Supplemental labor costs:		
Total	172.0	1
Legal costs	79.1	2
Voluntary costs	92.9	2
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	6.2	12
Response coverage ratio (percent)	56	(X)
Machinery	(19.6)	16
Response coverage ratio (percent)	62	(X)
Cost of purchased communication services	(14.4)	15
Response coverage ratio (percent)	57	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities and Towns: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
New Hampshire	-	1 825	623	95.3	1 029.0	72.0	138.0	645.3	2 174.7	1 893.7	4 032.3	162.0	89.7	1 278.6
STANDARD CONSOLIDATED STATISTICAL AREAS														
Boston-Lawrence-Lowell, Mass.-N.H.	-	6 478	2 254	341.6	4 609.0	211.7	410.7	2 252.0	9 387.0	8 028.7	17 260.2	522.0	347.2	6 161.5
Portion in New Hampshire	E1	80	20	1.6	16.3	1.1	2.0	8.8	32.4	27.9	60.6	3.5	(NA)	(NA)
Portion in Massachusetts	-	6 398	2 234	339.9	4 592.7	210.6	408.7	2 243.3	9 354.6	8 000.8	17 199.6	518.5	(NA)	(NA)
STANDARD METROPOLITAN STATISTICAL AREAS														
Lawrence-Haverhill, Mass.-N.H.	-	580	218	38.1	466.6	27.9	53.7	280.1	1 100.7	916.4	1 994.6	68.1	39.3	739.5
Portion in New Hampshire	E2	74	19	1.5	15.8	1.0	1.9	8.4	31.5	27.3	59.1	3.4	1.5	20.0
Portion in Massachusetts	-	506	199	36.6	450.9	26.9	51.9	271.7	1 069.2	889.1	1 935.4	64.7	37.8	719.6
Lowell, Mass.-N.H.	-	364	154	23.1	277.5	15.1	28.8	145.0	530.6	492.7	1 007.4	29.0	22.4	421.7
Portion in New Hampshire	E5	6	1	0.1	0.5	0.1	0.1	0.4	0.9	0.5	1.5	0.1	(Z)	(NA)
Portion in Massachusetts	-	358	153	23.0	277.0	15.0	28.7	144.6	529.7	492.2	1 006.0	28.9	22.3	421.3
Manchester	-	271	104	17.8	173.4	13.8	26.0	104.2	350.9	312.6	655.2	13.8	18.4	244.1
Nashua	-	265	117	19.7	258.9	12.6	25.1	142.4	528.2	503.5	1 036.7	44.8	18.4	322.6
COUNTIES														
Belknap	-	106	37	3.8	36.4	3.0	5.8	24.4	76.9	52.5	128.1	3.8	4.0	56.2
Carroll	E1	58	12	1.3	10.6	1.0	1.8	7.1	27.4	22.0	48.9	(D)	0.9	10.5
Cheshire	-	172	59	7.4	79.3	5.5	10.4	47.3	173.1	129.3	296.8	13.1	6.5	100.4
Coos	-	92	22	5.1	56.2	4.2	7.5	42.8	98.7	203.8	300.9	(D)	3.9	52.9
Grafton	-	138	40	5.5	50.3	4.4	8.3	33.0	117.9	74.7	190.8	9.2	5.4	54.2
Hillsborough	-	556	224	37.3	434.5	26.1	50.7	248.2	898.3	819.8	1 714.7	59.1	37.2	570.0
Merrimack	-	192	68	8.7	85.4	6.9	13.5	56.9	157.1	165.9	319.4	6.6	7.9	101.7
Rockingham	-	290	85	10.7	114.7	8.2	15.7	70.1	260.0	212.2	464.5	19.8	9.1	123.3
Strafford	-	117	45	10.8	107.9	8.9	16.6	76.3	227.0	145.5	368.0	16.1	11.1	146.8
Sullivan	-	104	31	4.8	53.6	3.9	7.7	39.3	138.3	67.9	200.1	11.8	3.8	62.6
CITIES AND TOWNS														
Berlin	-	29	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Claremont	-	39	17	2.6	28.3	2.0	3.8	20.9	84.6	50.8	130.4	9.1	2.2	43.8
Concord	-	69	24	4.7	47.0	3.6	7.2	29.8	85.6	79.8	163.1	3.1	4.6	59.4
Derry town	-	29	7	1.4	11.3	1.3	2.3	8.4	22.3	22.5	44.4	1.9	1.1	9.3
Dover	-	46	16	3.7	38.7	2.8	5.5	24.6	65.5	50.2	114.4	(D)	5.0	52.2
Exeter town	-	23	8	1.2	13.5	1.0	2.0	8.8	29.9	19.0	47.9	3.5	0.9	14.3
Farmington town	-	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Franklin	E6	17	8	0.9	8.8	0.7	1.3	6.5	12.9	17.2	29.5	0.3	0.9	5.3
Hudson town	-	44	12	2.0	20.6	1.0	2.0	8.9	39.2	60.4	97.3	4.7	(D)	(D)
Keene	-	49	22	3.9	46.9	2.6	5.0	23.9	94.8	49.3	139.5	5.0	3.6	60.3
Laconia	-	63	23	2.7	25.2	2.1	4.0	16.3	52.1	37.2	87.3	2.6	3.0	43.0
Lebanon	-	33	11	1.3	14.0	1.0	1.9	8.5	33.9	19.8	52.6	2.1	1.0	14.7
Littleton town	-	20	8	1.4	8.8	1.1	2.0	6.1	25.1	19.5	43.7	1.2	1.9	12.7
Manchester	-	173	75	14.4	142.7	11.0	20.7	83.2	295.1	260.7	548.4	10.4	15.9	215.6
Milford town	-	33	15	1.5	19.1	1.1	2.2	11.3	34.4	25.9	59.6	4.2	1.4	19.7
Nashua	-	153	77	13.6	180.6	8.8	17.6	100.3	368.6	327.2	700.0	22.7	15.5	255.2
Newmarket town	-	10	5	0.7	5.5	0.6	1.1	3.6	11.5	10.3	21.5	(D)	0.6	6.9
Newport town	-	34	11	2.0	23.1	1.7	3.6	16.9	48.7	12.5	60.1	2.2	1.3	16.1
Portsmouth	-	30	13	1.5	15.4	1.2	2.3	9.2	63.6	53.6	113.5	3.3	1.3	21.7
Rochester	-	35	15	2.6	21.2	2.3	4.0	16.0	44.1	38.4	80.8	3.9	1.5	21.9
Salem town	E2	26	7	0.6	7.2	0.4	0.8	3.0	15.8	15.8	30.9	2.4	0.7	8.3
Somersworth	-	15	8	3.1	32.5	2.6	4.8	23.9	88.2	29.5	116.5	(D)	3.0	54.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All Industries	–	**1 825**	**623**	**95.3**	**1 029.0**	**72.0**	**138.0**	**645.3**	**2 174.7**	**1 893.7**	**4 032.3**	**162.0**	**89.7**	**1 278.6**
20	**Food and kindred products**	–	**90**	**25**	**2.4**	**31.6**	**1.6**	**3.1**	**17.2**	**107.5**	**229.9**	**336.4**	**17.0**	**2.8**	**86.2**
201	Meat products	E2	11	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	8.9
2011	Meat packing plants	–	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2013	Sausages and other prepared meats	E4	5	3	0.2	1.9	0.1	0.2	1.3	3.9	17.6	21.1	(D)	(NA)	(NA)
202	Dairy products	E3	24	5	0.3	3.8	0.2	0.3	1.4	8.0	30.5	38.5	0.5	0.6	11.8
2026	Fluid milk	E3	16	4	0.3	3.1	0.1	0.2	1.2	6.5	25.8	32.2	0.4	0.5	11.0
205	Bakery products	–	15	3	0.4	5.6	0.2	0.4	2.0	10.7	8.3	19.0	0.4	BB	(D)
2051	Bread, cake, and related products	–	15	3	0.4	5.6	0.2	0.4	2.0	10.7	8.3	19.0	0.4	BB	(D)
208	Beverages	–	12	8	0.7	13.0	0.4	1.0	8.4	69.7	85.3	154.6	13.5	0.8	44.2
2082	Malt beverages	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2086	Bottled and canned soft drinks	–	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
209	Miscellaneous foods and kindred products	–	18	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2092	Fresh or frozen packaged fish	–	7	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
22	**Textile mill products**	–	**57**	**39**	**6.1**	**54.7**	**5.2**	**10.4**	**39.5**	**125.7**	**97.3**	**219.6**	**4.8**	**7.6**	**93.0**
2221	Weaving mills, manmade fiber and silk	–	3	3	0.6	4.7	0.5	1.0	3.8	6.1	9.0	14.2	(D)	0.8	7.1
2231	Weaving and finishing mills, wool	–	6	6	1.7	15.8	1.6	3.2	12.9	37.3	19.3	56.0	1.3	1.3	16.7
2241	Narrow fabric mills	–	13	9	0.8	6.0	0.7	1.4	4.6	18.8	8.2	26.9	0.5	0.7	12.7
225	Knitting mills	–	8	6	1.6	13.9	1.2	2.4	8.7	26.0	31.0	55.7	0.7	2.2	26.0
2252	Hosiery, n.e.c.	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2253	Knit outerwear mills	–	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	19.1
2257	Circular knit fabric mills	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
226	Textile finishing, except wool	–	6	4	0.5	5.5	0.4	0.8	3.6	21.6	8.2	29.6	1.2	BB	(D)
2262	Finishing plants, synthetics	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
228	Yarn and thread mills	E3	12	5	0.4	3.4	0.4	0.9	3.0	5.3	6.9	12.2	0.2	CC	(D)
2281	Yarn mills, except wool	E1	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
229	Miscellaneous textile goods	–	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2291	Felt goods, except woven felts and hats	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
23	**Apparel and other textile products**	**E4**	**49**	**34**	**2.5**	**16.4**	**2.2**	**3.9**	**12.6**	**30.5**	**18.2**	**48.1**	**0.8**	**2.1**	**17.4**
232	Men's and boys' furnishings	E4	11	10	0.6	3.9	0.6	1.0	3.2	8.8	3.8	12.2	(D)	BB	(D)
2329	Men's and boys' clothing, n.e.c.	–	5	5	0.3	1.7	0.3	0.5	1.5	3.5	0.3	3.6	(D)	(NA)	(NA)
233	Women's and misses' outerwear	E1	19	16	0.9	6.0	0.8	1.5	4.5	11.3	5.9	17.0	(D)	0.9	6.3
2335	Women's and misses' dresses	E6	7	5	0.2	1.3	0.2	0.4	1.1	1.8	0.6	2.4	0.1	0.3	1.5
2339	Women's and misses' outerwear, n.e.c.	–	8	8	0.5	3.7	0.5	0.8	2.5	8.2	2.6	10.8	0.2	BB	(D)
234	Women's and children's undergarments	E0	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2341	Women's and children's underwear	E0	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
236	Children's outerwear	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2363	Children's coats and suits	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	–	11	4	0.3	2.1	0.2	0.4	1.4	3.0	2.7	5.8	(D)	0.3	2.9
24	**Lumber and wood products**	**E1**	**355**	**57**	**4.4**	**38.8**	**3.8**	**6.8**	**29.0**	**87.3**	**115.9**	**202.6**	**(D)**	**4.5**	**50.0**
2411	Logging camps and logging contractors	E2	150	3	0.5	5.3	0.4	0.7	4.0	13.9	28.4	42.2	1.8	0.7	7.4
242	Sawmills and planing mills	E2	105	19	1.3	11.6	1.2	2.3	9.2	24.5	32.1	56.6	5.3	0.8	9.9
2421	Sawmills and planing mills, general	E2	95	18	1.2	10.9	1.1	2.1	8.7	23.3	31.0	54.2	5.0	0.7	9.2
243	Millwork, plywood, and structural members	–	24	7	0.8	7.1	0.6	1.2	4.9	17.6	25.1	42.6	0.6	1.1	14.4
2431	Millwork	–	17	5	0.5	4.5	0.4	0.8	2.8	9.0	16.8	25.8	0.5	0.7	7.0
2434	Wood kitchen cabinets	–	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
244	Wood containers	E3	23	7	0.4	2.7	0.4	0.6	2.3	5.8	5.0	10.8	0.4	0.6	4.1
2441	Nailed wood boxes and shook	–	7	4	0.3	1.4	0.2	0.4	1.1	3.1	2.3	5.4	(D)	0.3	2.3
245	Wood buildings and mobile homes	E1	11	7	0.5	4.6	0.4	0.7	3.0	11.5	15.8	27.3	(D)	0.4	5.0
2452	Prefabricated wood buildings	E1	10	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
249	Miscellaneous wood products	–	42	14	0.8	7.4	0.7	1.4	5.5	13.9	9.4	23.0	0.5	1.0	9.3
2499	Wood products, n.e.c.	E1	40	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
25	**Furniture and fixtures**	**E2**	**61**	**19**	**1.7**	**14.7**	**1.3**	**2.6**	**10.2**	33.1	**22.5**	**55.5**	**(D)**	**2.0**	**23.7**
251	Household furniture	E2	44	14	1.3	10.3	1.1	2.0	7.3	25.3	16.7	41.9	(D)	1.6	17.4
2511	Wood household furniture	E2	31	11	1.1	8.7	0.9	1.7	6.1	19.3	13.3	32.3	(D)	1.5	15.5
254	Partitions and fixtures	–	14	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.7
2541	Wood partitions and fixtures	–	12	3	0.2	2.7	0.2	0.4	2.0	4.3	3.6	8.0	0.1	AA	(D)
26	**Paper and allied products**	**–**	**49**	**31**	**6.6**	**89.3**	**4.9**	**9.7**	**55.9**	**175.1**	**311.2**	**480.1**	**27.1**	**6.1**	**118.8**
2621	Paper mills, except building paper	–	15	11	3.1	40.4	2.6	5.0	30.8	75.6	146.5	221.3	22.0	EE	(D)
2631	Paperboard mills	–	5	4	0.2	2.4	0.2	0.3	1.7	5.7	4.7	10.5	(D)	0.3	7.3
264	Miscellaneous converted paper products	–	18	10	2.7	40.3	1.7	3.5	19.5	81.4	140.9	216.8	3.8	2.2	60.7
2641	Paper coating and glazing	–	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2647	Sanitary paper products	–	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2648	Stationery products	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.7
265	Paperboard containers and boxes	–	11	6	0.6	6.2	0.4	0.9	3.8	12.4	19.1	31.4	(D)	0.6	9.7
2653	Corrugated and solid fiber boxes	–	6	3	0.3	3.0	0.2	0.4	2.0	5.6	9.8	15.4	0.2	AA	(D)
2654	Sanitary food containers	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
27	**Printing and publishing**	**–**	**226**	**48**	**5.1**	**55.2**	**3.3**	**5.9**	**30.9**	**106.2**	**67.6**	**173.2**	**5.6**	**4.7**	**68.5**
2711	Newspapers	E1	43	17	1.3	15.2	0.5	1.0	6.8	28.4	7.1	35.5	1.5	1.4	19.5
2721	Periodicals	–	18	5	0.3	3.1	0.2	0.2	1.1	6.3	11.9	18.1	0.1	0.2	4.6
275	Commercial printing	–	117	14	2.0	20.8	1.4	2.7	12.9	36.4	23.1	59.3	(D)	1.6	19.6
2751	Commercial printing, letterpress	E3	69	5	0.3	3.5	0.2	0.3	1.8	7.1	4.2	11.2	(D)	BB	(D)
2752	Commercial printing, lithographic	–	45	9	1.6	17.0	1.2	2.3	10.9	28.6	18.3	46.8	(D)	1.3	15.2
2761	Manifold business forms	–	5	4	0.6	7.3	0.4	0.9	4.9	19.1	12.4	31.2	0.6	CC	(D)
2771	Greeting card publishing	–	5	3	0.5	4.4	0.4	0.6	2.5	8.0	10.4	18.5	(D)	BB	(D)
278	Blankbooks and bookbinding	E3	5	3	0.2	2.0	0.2	0.4	1.6	3.5	1.0	4.5	0.3	(NA)	(NA)
2789	Bookbinding and related work	E3	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
28	**Chemicals and allied products**	**–**	**31**	**7**	**0.8**	**11.6**	**0.5**	**1.1**	**6.5**	**38.5**	**45.9**	**84.5**	**3.5**	**0.7**	**13.1**
282	Plastics materials and synthetics	E1	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
286	Industrial organic chemicals	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2869	Industrial organic chemicals, n.e.c.	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
289	Miscellaneous chemical products	E1	11	2	0.2	2.2	0.1	0.2	0.6	5.3	6.7	12.0	0.5	(NA)	(NA)
30	**Rubber and miscellaneous plastics products**	**E1**	**67**	**38**	**7.8**	**72.8**	**6.2**	**11.7**	**53.1**	**154.7**	**141.3**	**291.9**	**(D)**	**6.5**	**79.3**
3021	Rubber and plastics footwear	–	5	4	1.4	10.4	1.3	2.1	8.9	14.1	19.2	33.1	(D)	FF	(D)
3069	Fabricated rubber products, n.e.c.	E4	11	6	0.9	9.6	0.7	1.3	6.1	20.3	22.1	42.3	(D)	BB	(D)
3079	Miscellaneous plastics products	–	50	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
31	**Leather and leather products**	**–**	**71**	**54**	**11.1**	**79.9**	**9.7**	**18.8**	**60.5**	**152.6**	**156.8**	**301.8**	**4.8**	**12.8**	**123.1**
3111	Leather tanning and finishing	–	14	10	1.1	11.4	1.0	1.9	8.9	20.4	42.1	61.3	(D)	EE	(D)
3131	Boot and shoe cut stock and findings	–	6	4	0.2	0.7	0.1	0.2	0.5	1.0	1.0	2.0	(D)	BB	(D)
314	Footwear, except rubber	–	45	38	9.6	65.6	8.5	14.4	49.6	127.3	110.1	231.1	(D)	10.7	97.8
3143	Men's footwear, except athletic	–	11	10	2.3	16.5	2.0	3.5	13.2	32.4	34.3	64.8	0.6	FF	(D)
3144	Women's footwear, except athletic	–	27	22	6.7	43.9	5.9	9.7	33.1	83.7	68.7	148.4	(D)	7.3	64.4
3149	Footwear, except rubber, n.e.c.	–	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3199	Leather goods, n.e.c.	–	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
32	**Stone, clay, and glass products**	–	90	31	2.8	32.0	2.1	4.2	20.4	69.1	45.9	114.8	4.3	2.5	41.5
327	Concrete, gypsum, and plaster products	–	48	18	0.8	10.7	0.6	1.2	7.0	25.2	24.9	50.1	2.0	CC	(D)
3272	Concrete products, n.e.c.	E3	22	3	0.2	2.1	0.1	0.2	1.2	4.1	2.9	7.0	0.7	AA	(D)
3273	Ready-mixed concrete	–	16	11	0.4	5.7	0.3	0.6	3.9	13.2	14.3	27.4	0.9	0.2	7.5
3281	Cut stone and stone products	–	8	3	0.2	2.5	0.2	0.4	1.6	4.1	2.0	6.0	0.3	BB	(D)
329	Miscellaneous nonmetallic mineral products	–	13	7	1.7	16.9	1.3	2.5	10.8	35.7	15.8	51.5	1.8	1.4	17.1
3292	Asbestos products	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3293	Gaskets, packing, and sealing devices	–	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3299	Nonmetallic mineral products, n.e.c.	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
33	**Primary metal industries**	–	39	22	2.7	34.1	2.0	4.1	22.1	67.8	42.2	108.7	(D)	2.5	40.4
331	Blast furnace and basic steel products	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3315	Steel wire and related products	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
332	Iron and steel foundries	–	9	8	1.4	17.8	1.0	2.1	11.9	33.8	10.6	44.1	(D)	0.9	14.4
3324	Steel investment foundries	–	5	4	1.1	14.1	0.7	1.6	8.8	27.5	7.7	34.9	(D)	CC	(D)
3325	Steel foundries, n.e.c.	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing	–	7	6	0.6	8.3	0.4	0.9	4.1	17.5	21.8	38.4	(D)	0.8	14.8
3357	Nonferrous wire drawing and insulating	–	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
336	Nonferrous foundries	–	13	6	0.4	5.0	0.3	0.6	3.8	10.6	4.0	14.3	(D)	0.5	6.2
3361	Aluminum foundries	–	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
34	**Fabricated metal products**	E1	133	38	4.7	57.2	3.7	7.6	41.2	114.6	74.4	188.7	(D)	3.6	48.1
342	Cutlery, hand tools, and hardware	E1	17	7	0.4	4.7	0.3	0.6	3.3	7.9	6.1	13.8	(D)	BB	(D)
344	Fabricated structural metal products	–	43	10	1.6	19.5	1.2	2.4	14.3	39.0	27.8	68.0	(D)	1.5	19.8
3441	Fabricated structural metal	–	7	3	0.3	2.6	0.2	0.4	2.0	5.0	7.5	13.0	(D)	AA	(D)
3443	Fabricated plate work (boiler shops)	–	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3449	Miscellaneous metal work	–	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
345	Screw machine products, bolts, etc.	–	12	4	0.4	4.4	0.2	0.5	2.6	8.9	6.9	16.1	(D)	BB	(D)
3452	Bolts, nuts, rivets, and washers	–	5	3	0.3	3.7	0.2	0.4	2.1	7.6	6.2	14.1	(D)	AA	(D)
346	Metal forgings and stampings	E1	15	6	0.4	4.7	0.4	0.8	3.3	7.1	4.8	11.7	(D)	0.2	4.2
3469	Metal stampings, n.e.c.	–	14	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
348	Ordnance and accessories, n.e.c.	–	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3484	Small arms	–	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
349	Miscellaneous fabricated metal products	E4	17	4	0.7	7.7	0.5	1.0	5.5	9.5	9.9	19.3	0.4	CC	(D)
3494	Valves and pipe fittings	E6	5	3	0.5	5.8	0.4	0.8	4.4	6.3	8.1	14.3	(D)	CC	(D)
35	**Machinery, except electrical**	–	225	71	12.7	160.7	8.0	16.0	82.5	319.7	226.4	538.9	26.5	9.8	176.4
353	Construction and related machinery	–	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3532	Mining machinery	–	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
354	Metalworking machinery	–	40	12	1.8	23.7	1.2	2.0	10.7	56.2	28.2	79.9	3.6	1.4	27.6
3541	Machine tools, metal cutting types	–	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3544	Special dies, tools, jigs, and fixtures	E3	19	2	0.2	3.0	0.2	0.3	2.2	4.2	1.8	6.0	0.3	0.2	2.8
3545	Machine tool accessories	–	7	5	0.3	3.6	0.2	0.4	2.1	7.8	3.7	11.1	(D)	BB	(D)
3549	Metalworking machinery, n.e.c.	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
355	Special industry machinery	–	34	18	3.1	44.4	1.9	4.2	24.3	77.5	66.5	143.8	2.4	3.5	64.1
3552	Textile machinery	–	5	4	0.5	5.0	0.4	0.8	3.7	11.3	4.5	14.6	0.4	1.3	21.7
3554	Paper industries machinery	–	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3555	Printing trades machinery	–	6	3	0.7	10.3	0.3	0.7	4.1	10.4	9.3	19.7	(D)	CC	(D)
356	General industrial machinery	–	24	14	3.2	36.8	2.4	5.1	23.3	85.3	31.9	115.9	6.1	2.5	42.2
3562	Ball and roller bearings	–	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3569	General industrial machinery, n.e.c.	–	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
357	Office and computing machines	–	14	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3573	Electronic computing equipment	–	10	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3579	Office machines, n.e.c. and typewriters	–	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
35	**Machinery, except electrical**—Con.														
358	Refrigeration and service machinery	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	102	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	7.8
3599	Machinery, except electrical, n.e.c.	E2	102	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	7.8
36	**Electric and electronic equipment**	–	**110**	**51**	**12.7**	**142.9**	**9.8**	**18.9**	**93.7**	**346.4**	**160.2**	**503.7**	**15.1**	**12.3**	**169.3**
361	Electric distributing equipment	–	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3613	Switchgear and switchboard apparatus	–	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
362	Electrical industrial apparatus	–	10	3	0.6	5.4	0.5	0.9	3.6	12.0	7.6	19.4	0.4	0.3	4.7
3621	Motors and generators	–	6	2	0.5	4.4	0.4	0.7	2.9	9.5	6.2	15.7	(D)	BB	(D)
364	Electric lighting and wiring equipment	–	10	6	1.2	13.7	1.0	1.9	9.4	53.3	20.7	73.4	2.5	EE	(D)
3641	Electric lamps	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3643	Current-carrying wiring devices	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
366	Communication equipment	–	18	12	4.9	71.6	3.3	6.5	44.2	133.9	67.8	205.9	3.7	FF	(D)
3662	Radio and TV communication equipment	–	17	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
367	Electronic components and accessories	–	48	19	4.5	39.5	3.9	7.4	27.1	103.4	34.4	132.9	5.8	6.3	60.1
3675	Electronic capacitors	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3676	Electronic resistors	–	5	4	1.3	9.7	1.1	2.2	6.7	15.8	7.6	23.3	(D)	EE	(D)
3678	Electronic connectors	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3679	Electronic components, n.e.c.	–	33	8	1.9	17.2	1.7	3.1	12.2	62.9	15.7	75.1	4.4	1.0	16.5
369	Miscellaneous electrical equipment and supplies	–	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3699	Electrical equipment and supplies, n.e.c.	–	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
37	**Transportation equipment**	–	**27**	**5**	**1.8**	**22.8**	**1.3**	**2.8**	**14.9**	**43.9**	**37.7**	**81.1**	**(D)**	**1.8**	**25.5**
371	Motor vehicles and equipment	–	8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3714	Motor vehicle parts and accessories	–	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
372	Aircraft and parts	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3724	Aircraft engines and engine parts	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
373	Ship and boat building and repairing	E2	13	2	0.2	1.5	0.1	0.2	1.0	2.8	2.8	5.6	(D)	(NA)	(NA)
38	**Instruments and related products**	–	**60**	**25**	**6.7**	**76.3**	**4.8**	**9.5**	**43.0**	**169.3**	**76.2**	**245.5**	**7.8**	**4.6**	**82.7**
382	Measuring and controlling devices	–	21	13	4.8	51.1	3.6	7.0	30.4	124.0	45.6	168.9	5.9	FF	(D)
3823	Process control instruments	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3825	Instruments to measure electricity	–	14	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3832	Optical instruments and lenses	–	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
384	Medical instruments and supplies	E1	19	5	0.4	4.2	0.3	0.5	2.1	8.9	9.1	18.2	0.6	BB	(D)
3842	Surgical appliances and supplies	E1	11	4	0.3	2.5	0.2	0.4	1.4	4.9	5.6	10.7	0.2	(NA)	(NA)
39	**Miscellaneous manufacturing industries**	–	**63**	**16**	**1.8**	**15.8**	**1.4**	**2.7**	**11.1**	**27.7**	**20.2**	**48.2**	**3.7**	**1.9**	**19.8**
394	Toys and sporting goods	–	17	5	0.5	3.5	0.4	0.7	2.9	5.9	3.5	9.3	(D)	0.8	5.4
3942	Dolls	–	7	3	0.3	1.8	0.2	0.4	1.5	3.2	1.2	4.4	(D)	0.5	2.5
3944	Games, toys, and children's vehicles	–	4	2	0.2	1.6	0.2	0.3	1.4	2.5	2.1	4.5	(D)	BB	(D)
396	Costume jewelry and notions	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3964	Needles, pins, and fasteners	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
399	Miscellaneous manufactures	E1	34	8	1.0	9.1	0.8	1.5	6.1	15.7	13.2	29.3	(D)	0.8	10.2
3991	Brooms and brushes	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3995	Burial caskets	–	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3999	Manufacturing industries, n.e.c.	E2	18	4	0.5	4.2	0.4	0.7	2.8	5.9	5.9	11.7	0.3	BB	(D)
–	**Administrative and auxiliary**	–	17	10	1.1	20.9	–	–	–	–	–	–	–	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Boston-Lawrence-Lowell, Mass.-N.H., SCSA	-	**6 478**	**2 254**	**341.6**	**4 609.0**	**211.7**	**410.7**	**2 252.0**	**9 387.0**	**8 028.7**	**17 260.2**	**522.0**	**347.2**	**6 161.5**
20	Food and kindred products	-	392	153	17.4	211.2	11.8	23.2	121.9	543.9	1 232.3	1 775.2	28.2	(NA)	(NA)
2085	Distilled liquor, except brandy	-	4	4	0.5	6.3	0.3	0.7	3.3	19.1	43.4	63.2	0.4	(NA)	(NA)
2386	Leather and sheep lined clothing	-	8	6	0.7	5.8	0.6	1.1	4.2	10.7	10.8	19.9	(D)	(NA)	(NA)
24	Lumber and wood products	E1	175	39	3.5	35.1	2.7	4.9	20.5	68.2	80.8	146.8	(D)	(NA)	(NA)
2511	Wood household furniture	E3	42	4	0.4	2.8	0.3	0.6	2.2	6.1	7.7	13.4	(D)	(NA)	(NA)
26	Paper and allied products	-	156	86	12.1	144.0	9.1	18.2	90.7	299.0	356.2	649.1	(D)	8.8	146.5
2654	Sanitary food containers	-	8	6	0.9	9.2	0.8	1.4	6.6	24.7	24.9	49.2	0.8	(NA)	(NA)
27	Printing and publishing	-	1 004	225	28.2	376.7	15.4	28.4	182.2	845.8	394.8	1 234.8	(D)	28.0	513.1
28	Chemicals and allied products	-	242	71	8.3	122.4	5.1	10.2	61.9	439.7	404.6	839.1	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	247	113	13.6	146.9	10.1	19.7	93.3	322.9	340.0	665.5	28.3	15.4	304.7
31	Leather and leather products	E1	276	125	15.0	127.2	12.8	22.6	91.7	235.5	319.0	548.8	(D)	20.0	205.2
34	Fabricated metal products	-	648	220	19.5	249.8	14.8	28.5	164.2	590.0	397.0	990.1	30.5	20.7	434.5
344	Fabricated structural metal products	E1	234	71	4.6	60.1	3.5	6.7	37.9	110.7	110.6	224.0	(D)	(NA)	(NA)
3444	Sheet metal work	E1	84	26	1.3	17.3	1.0	2.1	11.2	29.6	26.4	56.5	(D)	(NA)	(NA)
346	Metal forgings and stampings	E1	63	26	1.8	22.1	1.5	3.0	14.9	41.2	30.8	71.9	1.3	(NA)	(NA)
35	Machinery, except electrical	-	875	224	39.9	589.9	22.1	44.3	278.4	1 285.8	746.8	2 006.3	73.8	(NA)	(NA)
355	Special industry machinery	-	116	41	8.6	127.0	4.3	9.1	53.4	266.3	165.9	427.4	(D)	(NA)	(NA)
3568	Power transmission equipment, n.e.c.	-	6	4	0.4	5.6	0.3	0.5	3.1	12.5	6.4	18.5	(D)	(NA)	(NA)
367	Electronic components and accessories	E1	224	107	16.2	190.5	11.4	22.3	104.5	381.9	189.3	569.3	(D)	(NA)	(NA)
3694	Engine electrical equipment	-	8	6	0.9	9.7	0.7	1.4	5.7	24.6	14.6	38.2	(D)	(NA)	(NA)
3931	Musical instruments	E1	24	5	0.4	5.1	0.3	0.6	3.5	12.3	7.4	19.7	(D)	(NA)	(NA)
	Lawrence-Haverhill, Mass.-N.H., SMSA	-	**580**	**218**	**38.1**	**466.6**	**27.9**	**53.7**	**280.1**	**1 100.7**	**916.4**	**1 994.6**	**68.1**	**39.3**	**739.5**
20	Food and kindred products	E2	40	16	1.2	12.1	0.8	1.5	7.0	29.9	75.9	106.5	2.9	1.0	13.9
202	Dairy products	E4	9	7	0.4	4.4	0.2	0.4	2.1	9.3	33.6	43.7	0.3	0.3	3.4
22	Textile mill products	-	21	12	3.3	36.4	2.6	5.0	25.0	78.8	104.8	183.8	(D)	3.2	49.9
23	Apparel and other textile products	-	29	15	2.1	19.6	1.7	3.2	12.6	40.3	53.4	91.9	0.3	2.5	27.6
2311	Men's and boys' suits and coats	-	5	4	1.3	12.9	1.0	2.1	8.4	22.2	23.9	43.9	(D)	1.3	13.9
233	Women's and misses' outerwear	-	15	5	0.4	3.5	0.3	0.6	2.1	13.1	13.7	27.1	(D)	(NA)	(NA)
24	Lumber and wood products	E2	26	6	0.4	4.3	0.3	0.6	2.5	8.5	10.2	18.3	0.6	0.3	4.0
25	Furniture and fixtures	-	21	6	0.9	7.7	0.7	1.3	5.3	14.7	12.7	27.2	0.7	0.6	9.2
26	Paper and allied products	-	24	15	1.4	17.5	1.1	2.4	12.5	43.8	51.7	95.2	(D)	0.8	17.9
265	Paperboard containers and boxes	E1	10	8	0.6	7.3	0.5	1.1	5.0	16.7	13.2	30.0	1.3	0.4	6.4
2651	Folding paperboard boxes	E1	3	3	0.3	4.0	0.3	0.6	2.8	7.0	6.2	13.3	1.0	(NA)	(NA)
27	Printing and publishing	-	45	8	0.8	7.7	0.4	0.6	3.6	16.5	5.9	22.4	0.4	0.7	11.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Lawrence-Haverhill, Mass.-N.H., SMSA—Con.													
28	Chemicals and allied products	-	17	7	1.1	16.1	0.8	1.5	9.0	112.8	58.7	169.4	2.5	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	40	19	1.9	19.2	1.4	3.1	12.9	42.6	48.7	92.5	3.7	2.4	40.9
3069	Fabricated rubber products, n.e.c.	-	8	3	0.3	3.3	0.2	0.5	2.3	4.2	6.5	11.6	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	E1	28	13	1.4	14.3	1.1	2.4	9.6	35.2	39.5	74.7	3.4	1.3	22.9
31	Leather and leather products	-	50	28	3.9	30.4	3.4	5.9	23.0	52.6	55.1	107.1	1.0	5.9	54.9
3111	Leather tanning and finishing	E1	11	6	0.4	3.5	0.3	0.6	2.5	7.3	7.5	14.3	0.2	(NA)	(NA)
3131	Boot and shoe cut stock and findings	E1	19	8	0.6	4.5	0.4	0.8	2.8	9.9	15.7	25.5	(D)	1.0	8.5
314	Footwear, except rubber	-	16	12	2.8	20.8	2.5	4.3	16.9	32.6	29.5	62.2	0.5	4.5	38.9
3144	Women's footwear, except athletic	-	10	8	2.0	15.8	1.8	3.2	13.0	25.0	23.6	48.6	0.5	3.5	30.9
32	Stone, clay, and glass products	-	14	3	0.3	3.2	0.3	0.5	2.1	5.9	5.4	11.2	0.3	0.3	5.4
33	Primary metal industries	E3	12	6	0.4	4.4	0.4	0.7	3.4	7.9	11.3	19.1	0.3	(NA)	(NA)
34	Fabricated metal products	-	43	17	1.6	19.3	1.2	2.4	13.7	44.4	45.6	90.9	4.0	1.5	37.5
344	Fabricated structural metal products	-	20	7	0.7	7.9	0.5	0.9	5.3	17.2	11.1	29.6	2.9	0.7	11.1
3443	Fabricated plate work (boiler shops)	-	6	2	0.4	4.6	0.3	0.5	3.1	9.3	5.7	16.3	(D)	(NA)	(NA)
35	Machinery, except electrical	-	82	19	2.4	30.6	1.6	3.2	17.2	87.4	40.3	117.5	3.7	2.3	89.8
355	Special industry machinery	E1	19	6	0.7	8.9	0.5	0.9	4.8	14.2	9.4	24.1	1.2	(NA)	(NA)
356	General industrial machinery	-	6	4	0.3	3.6	0.2	0.3	2.1	9.8	5.6	15.6	0.8	(NA)	(NA)
367	Electronic components and accessories	E1	33	13	1.8	19.4	1.3	2.6	11.2	44.6	24.2	67.5	4.4	(NA)	(NA)
3674	Semiconductors and related devices	-	7	5	1.0	11.2	0.8	1.5	6.8	27.3	11.0	37.9	(D)	(NA)	(NA)
38	Instruments and related products	E1	14	4	0.5	5.7	0.3	0.6	2.3	14.5	7.2	21.2	1.0	(NA)	(NA)
	Lowell, Mass.-N.H., SMSA	-	364	154	23.1	277.5	15.1	28.8	145.0	530.6	492.7	1 007.4	29.0	22.4	421.7
20	Food and kindred products	-	22	9	1.2	14.1	0.7	1.4	6.0	35.0	80.5	114.8	2.9	1.4	31.1
22	Textile mill products	-	26	22	3.0	32.8	2.3	4.8	20.4	62.6	93.2	151.6	5.6	3.0	48.6
228	Yarn and thread mills	-	5	5	0.3	1.8	0.2	0.4	1.3	3.8	4.8	8.6	(D)	(NA)	(NA)
23	Apparel and other textile products	E1	26	17	1.1	8.3	0.9	1.6	6.1	15.5	14.9	30.5	0.3	1.9	17.3
233	Women's and misses' outerwear	E1	11	11	0.6	4.8	0.5	1.0	3.5	8.9	5.2	14.1	0.1	1.1	8.7
24	Lumber and wood products	-	14	5	0.3	2.3	0.2	0.4	1.6	4.4	3.5	7.9	0.2	(NA)	(NA)
26	Paper and allied products	-	13	11	0.8	9.1	0.6	1.3	5.7	17.8	22.4	39.7	0.8	0.9	13.1
27	Printing and publishing	-	32	9	2.5	30.2	1.8	3.4	23.3	57.2	27.0	83.9	1.9	2.4	37.2
275	Commercial printing	-	20	4	1.4	15.4	1.0	2.0	12.9	31.7	21.9	53.4	(D)	1.4	20.9
30	Rubber and miscellaneous plastics products	-	16	9	0.9	8.9	0.8	1.5	5.9	22.4	19.9	43.0	1.7	1.0	14.1
31	Leather and leather products	-	8	5	1.3	9.7	1.2	2.1	7.2	20.0	29.3	50.5	(D)	1.6	14.8
32	Stone, clay, and glass products	-	12	3	0.3	4.0	0.2	0.4	2.3	8.5	5.7	14.5	0.9	0.5	7.8
34	Fabricated metal products	E2	32	11	0.5	5.7	0.4	0.8	3.9	10.4	10.9	21.5	0.6	0.6	7.5
344	Fabricated structural metal products	E2	14	5	0.3	2.7	0.2	0.4	1.8	4.8	7.6	12.6	0.2	0.4	4.6
35	Machinery, except electrical	-	51	13	3.7	46.0	1.6	3.1	16.2	97.9	72.7	170.0	5.7	(NA)	(NA)
36	Electric and electronic equipment	E3	39	20	1.9	18.1	1.5	2.8	11.0	38.5	18.9	56.3	5.1	1.4	19.0
367	Electronic components and accessories	-	22	12	0.9	9.3	0.7	1.3	5.5	19.8	9.1	28.4	(D)	0.7	8.1
3679	Electronic components, n.e.c.	-	16	7	0.6	5.8	0.4	0.9	3.9	11.9	5.3	17.0	1.4	0.5	6.0
38	Instruments and related products	E1	11	5	0.7	8.6	0.3	0.6	3.2	14.1	9.5	23.4	0.8	0.3	4.5

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Manchester SMSA	-	**271**	**104**	**17.8**	**173.4**	**13.8**	**26.0**	**104.2**	**350.9**	**312.6**	**855.2**	**13.8**	**18.4**	**244.1**
20	Food and kindred products	E1	20	7	0.6	8.9	0.4	0.8	4.1	17.8	62.6	79.8	2.8	1.0	22.4
23	Apparel and other textile products	E6	10	7	0.7	4.3	0.6	1.0	3.4	7.7	3.5	11.1	(D)	(NA)	(NA)
24	Lumber and wood products	E1	26	7	0.5	3.3	0.4	0.7	2.5	7.3	10.2	17.4	(D)	0.4	4.0
25	Furniture and fixtures	E3	17	6	0.4	4.0	0.3	0.6	2.8	7.2	6.7	14.0	0.4	0.7	10.1
27	Printing and publishing	-	40	5	0.8	11.3	0.5	0.9	6.5	24.4	9.7	33.9	0.5	(NA)	(NA)
31	Leather and leather products	-	14	12	3.5	25.8	3.1	5.4	19.8	48.7	49.2	95.2	(D)	3.7	41.6
3144	Women's footwear, except athletic	-	7	5	2.4	16.8	2.1	3.6	12.3	30.5	28.1	56.7	(D)	(NA)	(NA)
34	Fabricated metal products	-	19	7	0.7	7.6	0.5	1.1	5.1	20.9	20.4	41.4	(D)	0.5	6.4
35	Machinery, except electrical	-	25	6	0.6	7.6	0.3	0.6	2.1	10.5	10.5	20.9	0.4	0.3	4.0
36	Electric and electronic equipment	-	21	11	3.5	36.9	2.8	5.3	22.2	88.9	43.1	128.5	4.6	3.3	44.4
3825	Instruments to measure electricity	-	5	5	0.9	6.9	0.8	1.6	4.3	14.0	8.5	22.9	0.4	(NA)	(NA)
	Nashua SMSA	-	**265**	**117**	**19.7**	**258.9**	**12.6**	**25.1**	**142.4**	**528.2**	**503.5**	**1 036.7**	**44.8**	**18.4**	**322.6**
24	Lumber and wood products	-	21	7	0.7	7.3	0.6	1.2	5.4	19.4	26.4	46.4	0.9	0.9	13.9
30	Rubber and miscellaneous plastics products	-	10	8	1.4	13.7	1.1	2.1	9.4	38.4	24.8	62.0	(D)	(NA)	(NA)
32	Stone, clay, and glass products	E1	18	10	0.5	5.4	0.3	0.6	3.1	11.7	8.9	20.7	(D)	0.5	6.6
35	Machinery, except electrical	-	55	24	4.5	60.5	2.2	4.6	25.1	109.3	121.0	235.0	10.1	2.2	49.9
359	Miscellaneous machinery, except electrical	E4	15	4	0.3	3.4	0.2	0.4	2.2	5.0	3.9	8.8	0.4	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E4	15	4	0.3	3.4	0.2	0.4	2.2	5.0	3.9	8.8	0.4	(NA)	(NA)
36	Electric and electronic equipment	-	20	10	4.3	61.1	3.0	6.0	40.4	113.4	48.2	166.9	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	15	4	0.5	4.4	0.4	0.7	3.5	8.8	4.8	14.0	(D)	0.7	5.2

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Belknap County	-	106	**37**	**3.8**	**36.4**	**3.0**	**5.8**	**24.4**	**76.9**	**52.5**	**128.1**	**3.8**	**4.0**	**56.2**
36	Electric and electronic equipment	-	9	7	0.7	6.4	0.5	1.0	3.4	12.5	14.8	28.9	0.6	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Carroll County	-	**58**	**12**	**1.3**	**10.6**	**1.0**	**1.8**	**7.1**	**27.4**	**22.0**	**48.9**	**(D)**	**0.9**	**10.5**
	Cheshire County	-	**172**	**59**	**7.4**	**79.3**	**5.5**	**10.4**	**47.3**	**173.1**	**129.3**	**296.8**	**13.1**	**6.5**	**100.4**
22	Textile mill products	-	11	8	0.8	7.5	0.6	1.2	5.1	19.7	18.8	38.0	(D)	1.0	13.4
35	Machinery, except electrical	-	25	9	2.7	33.2	1.8	3.4	15.9	77.5	32.5	106.0	5.8	1.8	37.3
	Coos County	-	**92**	**22**	**5.1**	**56.2**	**4.2**	**7.5**	**42.8**	**98.7**	**203.8**	**300.9**	**(D)**	**3.9**	**52.9**
24	Lumber and wood products	E1	56	8	0.5	5.4	0.4	0.8	4.1	12.1	28.4	40.3	(D)	0.8	8.3
264	Miscellaneous converted paper products	-	3	3	0.5	5.6	0.4	0.7	4.2	9.8	36.2	45.1	(D)	(NA)	(NA)
	Grafton County	-	**138**	**40**	**5.5**	**50.3**	**4.4**	**8.3**	**33.0**	**117.9**	**74.7**	**190.8**	**9.2**	**5.4**	**54.2**
31	Leather and leather products	-	6	4	1.0	6.0	0.8	1.4	4.1	11.2	10.6	20.9	0.3	1.0	7.3
35	Machinery, except electrical	-	12	6	1.0	11.0	0.8	1.4	7.1	27.2	13.5	40.6	1.8	0.8	11.1
	Hillsborough County	-	**556**	**224**	**37.3**	**434.5**	**26.1**	**50.7**	**248.2**	**898.3**	**819.8**	**1 714.7**	**59.1**	**37.2**	**570.0**
20	Food and kindred products	-	29	13	1.3	20.5	0.9	1.7	12.5	83.0	142.2	224.3	14.0	1.7	64.8
22	Textile mill products	-	20	13	2.8	23.6	2.2	4.4	16.2	51.5	44.0	93.4	1.5	4.5	52.1
23	Apparel and other textile products	E6	20	14	1.1	7.3	1.0	1.8	5.7	13.1	7.5	20.2	0.3	0.8	5.2
24	Lumber and wood products	-	56	13	1.1	10.5	1.0	1.9	7.8	24.9	33.4	58.8	1.1	1.4	18.3
26	Paper and allied products	-	13	6	2.2	35.6	1.2	2.6	14.9	55.9	106.0	158.1	3.2	1.9	47.3
27	Printing and publishing	-	75	19	2.1	23.9	1.3	2.2	13.3	50.1	31.1	80.8	3.6	1.8	29.9
2761	Manifold business forms	-	4	3	0.5	6.6	0.4	0.8	4.6	18.4	11.9	29.9	0.6	(NA)	(NA)
28	Chemicals and allied products	-	13	4	0.5	7.8	0.3	0.7	4.5	29.7	37.7	67.6	3.0	0.6	10.9
30	Rubber and miscellaneous plastics products	E1	23	15	2.2	20.7	1.7	3.3	13.8	51.4	41.5	91.1	(D)	2.3	31.2
3069	Fabricated rubber products, n.e.c.	E3	3	3	0.6	6.2	0.4	0.8	3.7	13.8	15.6	29.2	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	-	19	11	1.5	13.5	1.2	2.3	9.3	36.3	23.9	58.6	1.4	(NA)	(NA)
31	Leather and leather products	-	18	14	3.4	26.3	3.0	5.2	19.9	50.6	48.5	96.4	1.2	4.2	50.4
314	Footwear, except rubber	-	12	11	3.1	22.9	2.7	4.6	17.4	45.1	39.4	81.3	0.7	3.6	43.2
32	Stone, clay, and glass products	-	26	13	0.6	6.9	0.4	0.8	4.3	16.2	13.3	29.5	1.5	0.5	8.5
33	Primary metal industries	-	12	6	1.0	12.4	0.6	1.3	7.1	22.2	13.1	34.7	2.2	0.8	13.9
34	Fabricated metal products	-	49	18	1.4	15.5	1.0	2.1	10.0	33.0	27.1	59.9	2.2	1.1	16.8
344	Fabricated structural metal products	-	19	7	0.7	7.4	0.5	1.1	4.9	16.5	16.0	32.6	1.5	0.6	7.9
35	Machinery, except electrical	-	85	30	5.8	75.0	3.1	6.6	34.1	136.3	134.1	275.2	11.3	3.2	62.9
354	Metalworking machinery	-	15	7	0.5	6.2	0.3	0.6	3.1	14.6	7.5	21.6	0.3	(NA)	(NA)
355	Special industry machinery	-	16	9	2.0	28.9	1.2	2.7	16.2	53.9	50.6	106.5	1.3	1.7	34.9
357	Office and computing machines	-	11	6	2.2	27.5	0.7	1.3	5.2	41.8	66.5	110.0	(D)	(NA)	(NA)
3573	Electronic computing equipment	-	9	4	2.1	26.3	0.6	1.2	4.8	41.1	63.3	106.5	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	36	20	7.6	97.3	5.6	10.9	62.1	209.5	91.5	302.5	6.7	9.3	131.7
367	Electronic components and accessories	-	14	8	1.8	15.2	1.5	2.8	9.3	26.2	12.4	38.7	1.7	4.4	40.1
3679	Electronic components, n.e.c.	-	9	4	0.7	6.1	0.6	1.1	4.2	10.2	5.9	16.5	1.2	(NA)	(NA)
38	Instruments and related products	-	25	9	2.4	26.5	1.6	3.2	12.4	44.3	28.0	74.3	1.5	0.7	9.1
3825	Instruments to measure electricity	-	5	5	0.9	6.9	0.8	1.6	4.3	14.0	8.5	22.9	0.4	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	23	6	0.8	7.2	0.6	1.2	5.2	13.9	9.3	23.6	(D)	1.0	8.8
399	Miscellaneous manufactures	-	16	4	0.6	5.5	0.5	0.9	3.7	10.9	7.0	18.3	0.5	0.5	5.6
--	Administrative and auxiliary	-	8	4	0.6	11.4	-	-	-	-	-	-	-	(NA)	(D)
	Merrimack County	-	**192**	**68**	**8.7**	**85.4**	**6.9**	**13.5**	**58.9**	**157.1**	**165.9**	**319.4**	**6.6**	**7.9**	**101.7**
24	Lumber and wood products	-	36	10	0.9	7.0	0.8	1.4	5.0	15.7	19.8	35.1	(D)	(NA)	(NA)
31	Leather and leather products	-	4	3	0.6	6.4	0.5	1.0	4.9	10.7	27.5	37.2	0.5	0.6	7.3
34	Fabricated metal products	E7	17	4	0.6	6.3	0.4	0.9	4.9	7.0	8.0	14.8	0.3	0.5	1.5
36	Electric and electronic equipment	-	10	5	1.1	9.0	0.9	1.7	7.0	21.1	8.9	28.7	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Rockingham County	-	**290**	**85**	**10.7**	**114.7**	**8.2**	**15.7**	**70.1**	**260.0**	**212.2**	**464.5**	**19.8**	**9.1**	**123.3**
20	Food and kindred products	E1	23	4	0.6	5.7	0.5	0.9	2.6	11.5	49.6	60.9	2.2	0.5	10.4
30	Rubber and miscellaneous plastics products	-	12	6	0.5	5.0	0.4	0.7	3.0	10.8	7.6	17.9	0.5	(NA)	(NA)
31	Leather and leather products	-	17	14	2.2	15.2	2.0	3.5	11.1	26.7	24.5	50.8	0.8	2.6	20.6
314	Footwear, except rubber	-	13	10	2.1	14.4	1.8	3.4	10.5	25.3	23.6	48.8	0.8	2.5	19.1
3144	Women's footwear, except athletic	-	6	4	1.0	6.8	0.9	1.6	4.9	10.6	9.4	19.6	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	17	4	0.5	5.8	0.3	0.7	3.5	14.3	12.4	26.4	0.6	(D)	(D)
34	Fabricated metal products	-	21	6	1.0	14.8	0.9	1.7	11.5	30.2	18.4	49.9	(D)	0.8	11.1
36	Electric and electronic equipment	-	28	8	1.7	16.1	1.5	2.7	11.5	65.3	17.5	78.3	4.7	(NA)	(NA)
367	Electronic components and accessories	-	15	4	1.1	10.2	1.0	1.9	7.3	50.0	8.2	54.4	(D)	(NA)	(NA)
	Strafford County	-	**117**	**45**	**10.8**	**107.9**	**8.9**	**16.6**	**76.3**	**227.0**	**145.5**	**368.0**	**16.1**	**11.1**	**146.8**
30	Rubber and miscellaneous plastics products	-	13	9	3.0	31.5	2.6	5.1	24.1	62.2	56.3	117.3	(D)	2.6	33.0
3079	Miscellaneous plastics products	-	9	6	2.5	27.8	2.1	4.2	21.1	58.0	49.9	106.8	(D)	(NA)	(NA)
31	Leather and leather products	-	17	12	2.7	16.5	2.4	3.7	13.0	25.0	23.5	47.8	0.9	3.3	27.0
36	Electric and electronic equipment	-	10	5	0.9	8.3	0.7	1.4	5.4	14.4	10.2	24.7	(D)	0.9	9.5
	Sullivan County	-	**104**	**31**	**4.8**	**53.6**	**3.9**	**7.7**	**39.3**	**138.3**	**67.9**	**200.1**	**11.8**	**3.8**	**62.6**
22	Textile mill products	-	7	5	1.3	11.8	1.2	2.3	9.1	21.5	11.3	32.8	0.6	0.8	10.5
35	Machinery, except electrical	-	20	4	0.9	12.2	0.7	1.3	8.6	30.2	13.6	40.3	(D)	1.1	19.5

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities and Towns: 1977 and 1972

[Includes cities and towns with 450 employees or more and industry groups and industries with 450 employees or more within cities and towns, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City, town, and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Claremont	-	39	**17**	**2.6**	**28.3**	**2.0**	**3.8**	**20.9**	**84.6**	**50.8**	**130.4**	**9.1**	**2.2**	**43.8**
	Concord	-	69	**24**	**4.7**	**47.0**	3.6	**7.2**	**29.8**	**85.6**	**79.8**	**163.1**	3.1	**4.6**	**59.4**
27	Printing and publishing	-	24	8	1.5	16.0	1.1	2.2	9.7	27.7	17.0	44.6	0.7	(NA)	(NA)
38	Instruments and related products	-	4	3	1.1	10.3	0.8	1.6	5.6	18.4	7.3	25.4	(D)	(NA)	(NA)
382	Measuring and controlling devices	-	4	3	1.1	10.3	0.8	1.6	5.6	18.4	7.3	25.4	(D)	(NA)	(NA)
3825	Instruments to measure electricity	-	4	3	1.1	10.3	0.8	1.6	5.6	18.4	7.3	25.4	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities and Towns: 1977 and 1972—Con.

[Includes cities and towns with 450 employees or more and industry groups and industries with 450 employees or more within cities and towns, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City, town, and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Derry town	-	**29**	**7**	**1.4**	**11.3**	**1.3**	**2.3**	**8.4**	**22.3**	**22.5**	**44.4**	**1.9**	**1.1**	**9.3**
	Dover	-	**46**	**16**	**3.7**	**38.7**	**2.8**	**5.5**	**24.6**	**65.5**	**50.2**	**114.4**	**(D)**	**5.0**	**52.2**
30	Rubber and miscellaneous plastics products	-	8	5	1.2	13.2	1.0	2.0	10.0	27.5	21.9	49.0	(D)	(NA)	(NA)
	Exeter town	-	**23**	**8**	**1.2**	**13.5**	**1.0**	**2.0**	**8.8**	**29.9**	**19.0**	**47.9**	**3.5**	**0.9**	**14.3**
	Franklin	-	**17**	**8**	**0.9**	**8.8**	**0.7**	**1.3**	**6.5**	**12.9**	**17.2**	**29.5**	**0.3**	**0.9**	**5.3**
	Hudson town	-	**44**	**12**	**2.0**	**20.6**	**1.0**	**2.0**	**8.9**	**39.2**	**60.4**	**97.3**	**4.7**	**(D)**	**(D)**
	Keene	-	**49**	**22**	**3.9**	**46.9**	**2.6**	**5.0**	**23.9**	**94.8**	**49.3**	**139.5**	**5.0**	**3.6**	**60.3**
35	Machinery, except electrical	-	11	4	2.2	29.1	1.4	2.5	12.4	57.9	23.4	76.6	(D)	(NA)	(NA)
	Laconia	-	**63**	**23**	**2.7**	**25.2**	**2.1**	**4.0**	**16.3**	**52.1**	**37.2**	**87.3**	**2.6**	**3.0**	**43.0**
36	Electric and electronic equipment	-	4	4	0.5	4.3	0.4	0.7	2.5	8.6	8.9	18.1	(D)	(NA)	(NA)
	Lebanon	-	**33**	**11**	**1.3**	**14.0**	**1.0**	**1.9**	**8.5**	**33.9**	**19.8**	**52.6**	**2.1**	**1.0**	**14.7**
	Littleton town	-	**20**	**8**	**1.4**	**8.8**	**1.1**	**2.0**	**6.1**	**25.1**	**19.5**	**43.7**	**1.2**	**1.9**	**12.7**
	Manchester	-	**173**	**75**	**14.4**	**142.7**	**11.0**	**20.7**	**83.2**	**295.1**	**260.7**	**548.4**	**10.4**	**15.9**	**215.6**
20	Food and kindred products	E1	14	7	0.6	8.8	0.4	0.8	4.0	17.6	62.0	79.0	2.7	1.0	22.2
22	Textile mill products	-	10	8	2.4	20.3	1.9	3.8	13.4	45.7	32.1	75.9	1.3	(NA)	(NA)
27	Printing and publishing	-	31	4	0.8	10.9	0.5	0.9	6.4	23.5	9.5	32.8	0.5	0.8	15.1
30	Rubber and miscellaneous plastics products	E4	9	6	0.7	6.0	0.6	1.0	3.6	11.1	13.9	24.4	(D)	(NA)	(NA)
344	Fabricated structural metal products	-	10	5	0.6	5.8	0.4	0.9	3.7	13.5	13.2	26.7	(D)	(NA)	(NA)
3825	Instruments to measure electricity	-	5	5	0.9	6.9	0.8	1.6	4.3	14.0	8.5	22.9	0.4	(NA)	(NA)
	Milford town	-	**33**	**15**	**1.5**	**19.1**	**1.1**	**2.2**	**11.3**	**34.4**	**25.9**	**59.6**	**4.2**	**1.4**	**19.7**
	Nashua	-	**153**	**77**	**13.6**	**180.6**	**8.8**	**17.6**	**100.3**	**368.6**	**327.2**	**700.0**	**22.7**	**15.5**	**255.2**
24	Lumber and wood products	-	8	5	0.5	5.1	0.4	0.8	3.8	15.7	18.7	34.7	(D)	(NA)	(NA)
27	Printing and publishing	-	15	5	0.7	7.2	0.5	0.7	3.9	11.9	11.7	23.6	2.3	(NA)	(NA)
3079	Miscellaneous plastics products	-	7	5	1.0	9.6	0.8	1.5	6.6	28.9	14.7	42.4	1.1	(NA)	(NA)
31	Leather and leather products	-	5	4	0.7	5.4	0.6	1.1	3.9	8.9	7.9	16.4	(D)	(NA)	(NA)
35	Machinery, except electrical	-	29	15	2.9	42.0	1.5	3.2	18.0	71.7	72.5	151.9	6.1	1.7	38.0
39	Miscellaneous manufacturing industries	-	10	4	0.5	4.1	0.4	0.7	3.3	8.2	4.5	13.1	(D)	(NA)	(NA)
	Newmarket town	-	**10**	**5**	**0.7**	**5.5**	**0.6**	**1.1**	**3.6**	**11.5**	**10.3**	**21.5**	**(D)**	**0.6**	**8.9**
	Newport town	-	**34**	**11**	**2.0**	**23.1**	**1.7**	**3.6**	**16.9**	**48.7**	**12.5**	**60.1**	**2.2**	**1.3**	**16.1**
	Portsmouth	-	**30**	**13**	**1.5**	**15.4**	**1.2**	**2.3**	**9.2**	**63.6**	**53.6**	**113.5**	**3.3**	**1.3**	**21.7**
	Rochester	-	**35**	**15**	**2.6**	**21.2**	**2.3**	**4.0**	**16.0**	**44.1**	**38.4**	**80.8**	**3.9**	**1.5**	**21.9**
31	Leather and leather products	-	7	5	1.2	6.9	1.1	1.6	5.7	11.3	12.4	23.7	(D)	(NA)	(NA)
	Salem town	-	**26**	**7**	**0.6**	**7.2**	**0.4**	**0.8**	**3.0**	**15.8**	**15.8**	**30.9**	**2.4**	**0.7**	**8.3**
	Somersworth	-	**15**	**8**	**3.1**	**32.5**	**2.6**	**4.8**	**23.9**	**88.2**	**29.5**	**118.5**	**(D)**	**3.0**	**54.6**

Note: "City" or "town" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufsctures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NEW HAMPSHIRE	1825	90	-	57	49	355	61	49	226	31	5	67	71	90	39	133	225	110	27	60	63	17
1 TO 4 EMPLOYEES	768	45	-	8	8	207	28	7	125	13	-	13	9	42	9	49	99	33	14	21	36	2
5 TO 9 EMPLOYEES	221	8	-	5	4	47	7	6	27	7	1	10	3	11	4	25	31	10	2	9	3	1
10 TO 19 EMPLOYEES	213	12	-	5	3	44	7	5	26	4	2	6	5	6	4	21	24	16	6	5	8	4
20 TO 49 EMPLOYEES	245	13	-	14	13	38	7	11	21	2	2	8	11	22	9	17	27	12	1	7	7	3
50 TO 99 EMPLOYEES	160	6	-	10	14	12	7	10	17	2	-	11	10	4	5	10	22	11	1	5	1	2
100 TO 249 EMPLOYEES	122	4	-	6	7	7	5	5	8	3	-	12	13	4	6	5	8	12	-	4	8	5
250 TO 499 EMPLOYEES	64	2	-	8	-	-	-	2	1	-	-	4	16	-	1	5	6	11	2	6	-	-
500 TO 999 EMPLOYEES	23	-	-	-	-	-	-	1	1	-	-	2	4	-	1	1	6	4	1	2	-	-
1000 TO 2499 EMPLOYEES	9	-	-	1	-	-	-	2	-	-	-	1	-	1	-	-	2	1	-	1	-	-
BELKNAP COUNTY	106	8	-	6	8	14	1	1	11	-	-	1	1	5	6	6	15	9	2	6	6	-
1 TO 19 EMPLOYEES	69	7	-	2	3	12	1	-	10	-	-	1	-	2	3	5	12	2	2	4	3	-
20 TO 99 EMPLOYEES	21	1	-	3	4	1	-	1	1	-	-	-	-	2	1	1	1	3	-	1	1	-
100 TO 249 EMPLOYEES	15	-	-	1	1	1	-	-	-	-	-	-	-	1	2	-	2	4	-	1	2	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
CARROLL COUNTY	58	1	-	-	2	23	6	1	6	-	-	3	1	3	2	2	3	2	-	-	3	-
1 TO 19 EMPLOYEES	46	1	-	-	1	20	4	1	5	-	-	2	1	1	-	2	3	2	-	-	3	-
20 TO 99 EMPLOYEES	8	-	-	-	1	2	1	-	1	-	-	-	-	2	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	1	1	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-
CHESHIRE COUNTY	172	4	-	11	3	37	6	8	20	4	-	5	5	3	4	14	25	7	1	6	8	1
1 TO 19 EMPLOYEES	113	3	-	3	2	31	4	2	16	4	-	3	1	2	1	10	16	5	1	4	4	1
20 TO 99 EMPLOYEES	40	1	-	6	1	6	-	6	3	-	-	-	3	1	2	3	5	1	-	-	2	-
100 TO 249 EMPLOYEES	12	-	-	-	-	-	2	-	1	-	-	2	1	-	1	1	-	1	-	1	2	-
250 EMPLOYEES AND OVER	7	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	1	-	-
COOS COUNTY	92	5	-	-	2	56	2	5	8	1	-	4	-	2	-	1	3	1	-	-	1	1
1 TO 19 EMPLOYEES	70	4	-	-	-	48	1	-	8	1	-	1	-	2	-	1	2	1	-	-	1	-
20 TO 99 EMPLOYEES	14	1	-	-	1	8	1	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	1
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-
GRAFTON COUNTY	138	2	-	1	4	50	7	1	25	2	1	1	6	8	1	5	12	5	1	4	1	1
1 TO 19 EMPLOYEES	98	2	-	-	-	42	4	1	20	2	1	1	2	5	-	5	6	2	1	3	1	-
20 TO 99 EMPLOYEES	28	-	-	-	3	8	2	-	4	-	-	-	2	2	1	-	3	1	-	1	-	1
100 TO 249 EMPLOYEES	8	-	-	1	1	-	1	-	1	-	-	-	-	-	-	-	2	2	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	1	-	-	-	-	-
HILLSBOROUGH COUNTY	556	29	-	20	20	56	16	13	75	13	2	23	18	26	12	49	85	36	7	25	23	8
1 TO 19 EMPLOYEES	332	16	-	7	6	43	11	7	56	9	-	8	4	13	6	31	55	16	7	16	17	4
20 TO 99 EMPLOYEES	142	9	-	7	10	10	4	3	13	2	2	8	5	11	5	15	22	8	-	5	2	1
100 TO 249 EMPLOYEES	47	3	-	3	4	3	1	2	5	2	-	5	4	2	-	2	2	2	-	-	4	3
250 EMPLOYEES AND OVER	35	1	-	3	-	-	-	1	1	-	-	2	5	-	1	1	6	10	-	4	-	-
MERRIMACK COUNTY	192	8	-	6	5	36	7	5	32	2	-	5	4	18	5	17	17	10	3	7	5	-
1 TO 19 EMPLOYEES	124	5	-	2	2	26	4	2	24	2	-	3	1	15	3	13	9	5	2	2	4	-
20 TO 99 EMPLOYEES	49	3	-	3	3	8	3	2	6	-	-	1	1	3	2	3	6	3	-	1	1	-
100 TO 249 EMPLOYEES	11	-	-	-	-	2	-	1	1	-	-	1	1	-	-	-	2	1	-	2	-	-
250 EMPLOYEES AND OVER	8	-	-	1	-	-	-	-	1	-	-	-	1	-	-	1	-	1	1	2	-	-
ROCKINGHAM COUNTY	290	23	-	3	3	38	13	5	30	8	1	12	17	17	3	21	34	28	9	9	12	4
1 TO 19 EMPLOYEES	205	19	-	1	-	34	11	2	24	5	1	6	3	13	2	15	28	20	5	5	11	-
20 TO 99 EMPLOYEES	60	3	-	1	3	4	2	3	6	2	-	5	6	3	-	3	6	4	2	3	1	3
100 TO 249 EMPLOYEES	12	-	-	1	-	-	-	-	-	1	-	1	5	1	-	1	-	1	-	-	-	1
250 EMPLOYEES AND OVER	13	1	-	-	-	-	-	-	-	-	-	-	3	-	1	2	-	3	2	1	-	-
STRAFFORD COUNTY	117	6	-	3	1	7	1	5	11	1	1	13	17	4	3	12	11	10	4	2	3	2
1 TO 19 EMPLOYEES	72	6	-	1	1	7	1	1	10	1	1	4	5	2	2	10	7	5	4	-	2	2
20 TO 99 EMPLOYEES	24	-	-	2	-	-	-	4	1	-	-	4	4	2	1	-	2	2	-	1	1	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	1	-	-	-	-
250 EMPLOYEES AND OVER	17	-	-	-	-	-	-	-	-	-	-	4	7	-	-	1	2	2	-	1	-	-
SULLIVAN COUNTY	104	4	-	7	1	38	2	5	8	-	-	-	2	4	3	6	20	2	-	1	1	-
1 TO 19 EMPLOYEES	73	2	-	2	-	35	1	2	5	-	-	-	-	4	-	3	16	1	-	1	1	-
20 TO 99 EMPLOYEES	19	1	-	2	1	3	1	1	3	-	-	-	-	-	1	2	3	1	-	-	-	-
100 TO 249 EMPLOYEES	5	1	-	-	-	-	-	1	-	-	-	-	1	-	2	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	3	-	-	-	1	-	-	-	-	1	-	-	1	1	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities sre presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

New Jersey

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NEW JERSEY



U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 778.3 thousand persons were employed in New Jersey's manufacturing establishments. This figure represented a decrease of 7 percent from the 1972 figure of 836.1 thousand workers.

The total value added by manufacture for the State amounted to $22,853 million in 1977, an increase of approximately 39 percent from the 1972 figure of $16,409 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were chemicals and allied products; electric and electronic equipment; machinery, except electrical; and apparel and other textile products. They accounted for approximately 38 percent of the State's 1977 employment. The order has shifted from 1972 when industry groups chemicals and allied products; electric and electronic equipment; apparel and other textile products; and machinery, except electrical accounted for approximately 39 percent of the State's employment.

The most important counties in the State ranked by employment were Bergen, Union, Essex, and Middlesex. They accounted for approximately 47 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Bergen, Essex, Union, and Hudson accounted for approximately 49 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 2 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
New Jersey:						
1977	778.3	10,924.2	691.4	9,175.6	86.9	1,748.6
1972	836.1	8,107.2	756.1	6,961.4	80.0	1,145.8
1967	881.3	6,325.4	817.9	5,673.1	63.4	652.3
1963	829.2	5,121.3	778.0	4,665.8	51.2	455.5
STANDARD CONSOLIDATED STATISTICAL AREAS						
New York-Newark-Jersey City, N.Y.-N.J.-Conn.:						
1977	1,502.0	20,379.2	1,317.1	16,309.1	184.9	4,070.1
1972	1,694.5	13,654.6	1,487.6	10,602.3	206.9	3,052.3
1967	1,818.5	12,968.2	1,643.5	10,998.6	175.0	1,969.6
1963	1,779.0	10,767.1	1,625.6	9,279.1	153.5	1,488.0
Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md.:						
1977	550.5	8,072.4	487.8	6,814.0	62.7	1,258.4
1972	597.8	5,900.8	543.5	5,127.6	54.3	773.2
STANDARD METROPOLITAN STATISTICAL AREAS						
Allentown-Bethlehem-Easton, Pa.-N.J.:						
1977	106.8	1,430.8	97.1	1,217.2	9.7	213.6
1972	110.4	980.6	102.1	851.2	8.3	129.4
Atlantic City:						
1977	8.7	88.7	(D)	(D)	(D)	(D)
1972	10.4	76.5	(D)	(D)	(D)	(D)
1967	10.2	52.5	(D)	(D)	(D)	(D)
1963	8.7	35.4	(D)	(D)	(D)	(D)
Jersey City:						
1977	72.2	870.1	70.2	843.6	2.0	26.5
1972	95.3	849.4	93.5	825.7	1.8	23.7
1967	107.2	737.8	104.4	708.8	2.8	29.0
1963	109.5	633.4	106.6	611.6	3.0	21.9
Long Branch-Asbury Park:						
1977	26.6	351.8	22.3	252.7	4.3	99.1
1972	26.1	234.8	21.4	163.2	4.7	71.6
New Brunswick-Perth Amboy-Sayreville:						
1977	80.5	1,174.7	69.5	962.8	11.0	211.9
1972	80.1	809.8	72.2	706.6	7.9	103.2
New York, N.Y.-N.J.:						
1977	796.6	10,313.0	693.0	7,981.4	103.6	2,331.6
1972	949.2	8,862.5	810.6	6,792.1	138.6	2,070.4
1967	1,147.4	8,112.7	1,023.5	6,654.7	123.9	1,458.0
1963	1,147.1	6,849.4	1,034.0	5,713.4	113.2	1,136.1
Newark:						
1977	255.5	3,853.3	217.8	3,052.6	37.7	800.7
1972	271.8	2,795.3	234.9	2,251.8	36.9	543.5
1967	263.7	1,958.4	238.2	1,698.5	25.5	259.9
1963	250.2	1,613.8	224.6	1,379.4	25.7	234.4
Paterson-Clifton-Passaic:						
1977	65.3	856.5	59.9	747.0	5.4	109.5
1972	75.5	671.6	71.9	620.0	3.6	51.6
Philadelphia, Pa.-N.J.:						
1977	451.8	6,364.7	418.8	5,764.9	33.0	599.8
1972	495.7	4,774.6	466.0	4,379.3	29.7	395.3
1967	573.8	4,125.2	549.4	3,875.5	24.4	249.7
1963	535.8	3,310.6	512.8	3,108.7	23.0	201.9
Trenton:						
1977	35.9	538.4	29.0	397.7	6.9	140.7
1972	35.6	362.5	30.8	290.6	4.8	71.9
1967	38.1	282.7	35.0	247.6	3.1	35.1
1963	37.8	244.5	33.9	210.6	3.9	33.9
Vineland-Millville-Bridgeton:						
1977	18.9	223.2	(D)	(D)	(D)	(D)
1972	22.5	168.8	(D)	(D)	(D)	(D)
1967	24.1	140.4	24.1	140.4	-	-
Wilmington, Del.-N.J.-Md.:						
1977	62.8	1,169.3	41.1	669.4	21.7	499.9
1972	64.1	763.6	44.4	459.3	19.7	304.3
1967	68.0	605.1	48.2	358.0	19.8	247.1
1963	59.4	468.6	42.3	283.5	17.1	185.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
NEW JERSEY															
1977 CENSUS.	15 696	5 775	778.3	10 924.2	489.6	955.8	5 561.7	22 852.8	28 633.9	51 279.4	1 376.3	3.97	100	100	19 596.9
1976 ASM....	(NA)	(NA)	735.7	9 703.8	458.4	906.5	4 851.1	20 287.5	25 438.3	45 711.3	1 216.3	3.92	95	96	18 753.0
1975 ASM....	(NA)	(NA)	747.1	9 115.4	463.4	899.4	4 557.2	17 740.8	22 759.5	40 716.8	1 200.2	4.08	96	94	18 302.2
1974 ASM....	(NA)	(NA)	818.6	9 038.2	531.4	1 043.1	4 806.9	18 394.1	22 622.5	40 346.0	1 203.2	4.13	105	102	19 844.8
1973 ASM....	(NA)	(NA)	852.0	8 603.7	559.6	1 089.1	4 662.1	17 754.4	18 410.2	35 924.9	955.3	4.28	109	102	19 897.9
1972 CENSUS.	13 790	5 918	836.1	8 107.2	546.6	1 070.9	4 353.7	16 408.9	16 149.8	32 409.1	940.1	4.39	107	98	19 028.7
1971 ASM....	(NA)	(NA)	796.5	7 258.2	517.4	1 023.5	3 880.9	14 393.8	14 540.0	28 953.4	798.4	4.34	102	94	18 363.1
1970 ASM....	(NA)	(NA)	858.8	7 217.2	563.6	1 116.5	3 877.6	14 413.8	14 204.7	28 503.2	902.3	4.47	110	99	19 217.2
1969 ASM....	(NA)	(NA)	890.0	7 091.8	596.7	1 183.9	3 938.4	14 364.1	14 574.5	28 835.9	933.2	4.44	114	103	20 035.5
1968 ASM....	(NA)	(NA)	874.3	6 433.4	591.1	1 173.6	3 743.4	13 503.4	13 696.0	27 163.9	764.5	4.48	112	100	19 527.6
1967 CENSUS.	14 740	5 903	881.3	6 325.4	603.7	1 203.7	3 617.8	12 738.2	13 151.2	25 761.7	824.3	4.56	113	99	19 323.2
1966 ASM....	(NA)	(NA)	876.5	6 046.7	604.5	1 218.8	3 506.0	12 246.3	12 961.5	24 941.2	776.4	4.61	113	98	19 024.5
1965 ASM....	(NA)	(NA)	845.2	5 601.9	585.9	1 180.5	3 292.4	11 267.9	12 076.6	23 156.2	617.6	4.69	109	92	18 010.2
1964 ASM....	(NA)	(NA)	820.8	5 274.7	562.2	1 135.2	3 087.9	10 216.6	11 041.5	21 225.6	502.2	4.75	105	89	17 268.5
1963 CENSUS.	15 208	5 528	829.2	5 121.3	573.8	1 145.4	3 021.0	9 957.3	(NA)	(NA)	525.0	4.89	107	87	16 958.4
NEW YORK-NEWARK-JERSEY CITY, N.Y.-N.J.-CONN., SCSA															
1977 CENSUS.	41 325	13 366	1 502.0	20 379.2	919.2	1 747.6	9 319.5	40 638.1	44 236.4	84 486.0	1 949.6	7.66	100	100	19 596.9
1972 CENSUS.	36 320	12 614	1 694.5	13 654.6	885.7	1 688.6	6 414.9	29 668.0	25 402.8	50 270.3	1 083.1	8.90	113	98	19 028.7
PHILADELPHIA-WILMINGTON-TRENTON, PA.-DEL.-N.J.-MD., SCSA															
1977 CENSUS.	8 964	3 306	550.5	8 072.4	343.8	667.7	4 192.6	15 796.6	22 402.4	38 008.3	921.5	2.81	100	100	19 596.9
1972 CENSUS.	13 435	5 309	597.8	8 696.1	547.7	1 072.5	4 523.8	11 008.5	17 455.5	33 909.1	959.2	3.14	109	98	19 028.7
ALLENTOWN-BETHLEHEM-EASTON, PA.-N.J., SMSA															
1977 CENSUS.	1 183	621	106.8	1 430.8	75.8	140.9	853.3	2 731.8	3 105.1	5 828.2	172.8	.55	100	100	19 596.9
1976 ASM....	(NA)	(NA)	107.6	1 346.9	74.5	142.0	775.8	2 483.2	3 194.6	5 673.4	1 911.5	.57	101	96	18 753.0
1975 ASM....	(NA)	(NA)	111.2	1 286.9	76.5	143.7	739.5	2 193.8	3 008.3	5 193.0	224.1	.61	104	94	18 302.2
1974 ASM....	(NA)	(NA)	116.8	1 240.2	82.9	159.3	745.1	2 369.3	2 993.8	5 227.1	215.4	.59	109	102	19 844.8
1973 ASM....	(NA)	(NA)	113.5	1 083.5	81.6	153.5	671.1	2 185.3	2 169.6	4 255.9	176.1	.57	106	102	19 897.9
1972 CENSUS.	1 116	645	110.4	980.6	80.6	149.0	592.6	1 805.6	1 768.5	3 553.8	164.5	.58	103	98	19 028.7
JERSEY CITY SMSA															
1977 CENSUS.	1 857	655	72.2	870.1	53.8	100.8	557.5	1 983.4	2 733.7	4 702.1	94.6	.37	100	100	19 596.9
1976 ASM....	(NA)	(NA)	71.4	797.4	52.7	102.1	502.2	1 968.4	2 839.9	4 816.4	89.3	.38	99	96	18 753.0
1975 ASM....	(NA)	(NA)	74.1	814.7	53.9	105.0	505.0	1 935.9	2 560.8	4 517.0	80.6	.40	103	94	18 302.2
1974 ASM....	(NA)	(NA)	87.5	872.8	66.0	123.7	565.2	1 914.9	2 587.8	4 451.2	76.9	.44	121	102	19 844.8
1973 ASM....	(NA)	(NA)	91.5	858.8	69.0	132.1	557.3	1 885.7	2 296.9	4 166.4	88.5	.46	127	102	19 897.9
1972 CENSUS.	1 911	799	95.3	849.4	71.2	136.1	546.8	1 899.2	2 036.2	3 914.2	91.8	.50	132	98	19 028.7
1971 ASM....	(NA)	(NA)	92.0	768.6	68.7	131.9	498.3	1 758.6	1 752.4	3 519.1	75.6	.50	127	94	18 363.1
NEW BRUNSWICK-PERTH AMBOY-SAYREVILLE SMSA															
1977 CENSUS.	1 147	540	80.5	1 174.7	49.7	97.9	602.3	2 945.2	3 986.3	6 864.2	164.7	.41	100	100	19 596.9
1971 ASM....	4 600	1 749	263.4	2 209.0	141.6	284.0	1 063.5	4 519.5	4 379.4	880.4	211.7	1.43	327	94	18 363.1
1970 ASM....	4 600	1 749	250.7	2 216.0	152.5	305.0	1 068.7	4 282.6	4 280.2	8 550.4	264.4	1.30	312	99	19 217.2
1969 ASM....	4 600	1 749	269.9	2 212.2	170.1	338.8	1 127.0	4 450.6	4 398.7	8 842.6	281.4	1.35	335	103	20 035.5
1968 ASM....	4 600	1 749	262.5	2 061.9	166.7	334.7	1 079.0	4 304.5	4 177.9	8 422.3	260.0	1.34	326	100	19 527.6
1967 CENSUS.	4 466	1 769	263.7	1 958.4	170.2	343.4	1 033.4	4 071.1	4 117.6	8 147.4	295.6	1.36	328	99	19 323.2
1966 ASM....	(NA)	(NA)	260.1	1 868.4	167.5	347.5	989.3	3 863.9	4 122.0	7 889.9	231.7	1.37	323	98	19 024.5
1965 ASM....	(NA)	(NA)	252.5	1 740.7	162.4	330.7	912.9	3 549.4	3 865.0	7 358.0	179.0	1.40	314	92	18 010.2
1964 ASM....	(NA)	(NA)	244.1	1 635.6	156.8	318.3	874.4	3 151.6	3 474.4	6 613.7	153.5	1.41	303	89	17 268.5
1963 CENSUS.	4 692	1 705	250.2	1 613.8	160.3	321.9	852.9	3 015.6	(NA)	(NA)	155.8	1.48	311	87	16 958.4
NEW YORK, N.Y.-N.J., SMSA															
1977 CENSUS.	25 831	8 040	796.6	10 313.0	489.0	909.7	4 519.2	19 878.3	21 494.9	41 187.9	862.5	4.07	100	100	19 596.9
1976 ASM....	(NA)	(NA)	763.4	9 298.5	455.9	856.9	3 946.1	16 818.9	19 005.3	35 831.8	813.0	4.07	96	96	18 753.0
1975 ASM....	(NA)	(NA)	787.4	9 240.4	464.0	873.3	3 840.6	15 927.9	17 992.6	34 092.5	645.8	4.30	99	94	18 302.2
1974 ASM....	(NA)	(NA)	854.5	9 277.1	517.1	977.7	3 911.7	15 953.4	17 404.6	33 078.3	616.0	4.31	107	102	19 844.8
1973 ASM....	(NA)	(NA)	938.7	9 146.0	589.8	1 095.3	4 142.8	15 666.2	16 659.9	32 256.2	524.5	4.72	118	102	19 897.9
1972 CENSUS.	41 684	14 353	949.2	8 862.5	589.5	1 106.9	4 000.4	15 120.8	15 634.1	30 604.4	585.1	4.99	119	98	19 028.7
1971 ASM....	(NA)	(NA)	992.9	8 653.2	614.2	1 161.8	3 994.8	15 245.3	14 361.4	29 525.8	573.4	5.41	125	94	18 363.1
1970 ASM....	(NA)	(NA)	1 074.8	8 766.2	680.6	1 296.2	4 141.9	15 193.5	14 102.0	29 185.2	547.2	5.59	135	99	19 217.2
1969 ASM....	(NA)	(NA)	1 158.7	8 934.2	747.5	1 433.3	4 357.0	15 429.1	15 103.0	30 537.4	537.1	5.78	145	103	20 035.5
1968 ASM....	(NA)	(NA)	1 140.0	8 452.3	743.3	1 358.1	4 187.9	14 854.1	14 468.3	29 194.3	487.6	5.84	143	100	19 527.6
1967 CENSUS.	45 894	15 915	1 147.4	8 112.7	749.6	1 435.6	3 968.1	13 803.5	13 808.6	27 486.1	439.4	5.94	144	99	19 323.2
1966 ASM....	(NA)	(NA)	1 149.1	7 551.8	749.0	1 435.6	3 662.3	12 981.9	13 801.2	26 521.2	379.5	6.04	144	98	19 024.5
1965 ASM....	(NA)	(NA)	1 138.2	7 174.4	748.3	1 438.9	3 564.6	12 308.6	13 155.5	25 311.0	336.5	6.32	143	92	18 010.2
1964 ASM....	(NA)	(NA)	1 146.3	7 134.0	745.1	1 445.5	3 563.2	11 577.6	12 564.3	24 114.3	296.9	6.64	144	89	17 268.5
1963 CENSUS.	49 904	16 085	1 147.1	6 849.4	760.7	1 455.2	3 515.6	11 417.0	(NA)	(NA)	345.8	6.76	144	87	16 958.4

See footnotes at end of table.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years—Con.

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
NEWARK SMSA															
1977 CENSUS.	4 638	1 733	255.5	3 853.3	145.5	287.4	1 702.3	7 870.8	9 520.5	17 304.3	461.5	1.30	100	100	19 596.9
1976 ASM....	(NA)	(NA)	246.5	3 559.8	135.1	270.7	1 490.1	7 045.8	8 183.0	15 171.8	398.6	1.31	96	96	18 753.0
1975 ASM....	(NA)	(NA)	252.6	3 265.1	139.9	270.4	1 374.5	6 055.9	7 268.8	13 393.8	395.4	1.38	99	94	18 302.2
1974 ASM....	(NA)	(NA)	261.0	3 052.2	155.2	308.2	1 427.8	6 134.2	6 943.6	12 890.5	366.0	1.32	102	102	19 844.8
1973 ASM....	(NA)	(NA)	276.7	3 001.9	163.6	323.4	1 417.3	6 086.3	5 828.9	11 874.6	282.5	1.39	108	102	19 897.9
1972 CENSUS.	4 600	1 749	271.8	2 795.3	160.7	317.5	1 312.8	5 608.6	5 071.4	10 614.6	269.9	1.43	106	98	19 028.7
1971 ASM....	(NA)	(NA)	263.4	2 209.0	141.6	284.0	1 063.5	4 519.5	4 379.4	8 880.4	211.7	1.43	103	94	18 363.1
1970 ASM....	(NA)	(NA)	250.7	2 216.0	152.5	305.0	1 068.7	4 282.6	4 280.2	8 550.4	264.4	1.30	98	99	19 217.2
1969 ASM....	(NA)	(NA)	269.9	2 212.2	170.1	338.8	1 127.0	4 450.6	4 398.7	8 842.6	281.4	1.35	106	103	20 035.5
1968 ASM....	(NA)	(NA)	262.5	2 061.9	166.7	334.7	1 079.0	4 304.5	4 177.9	8 422.3	260.0	1.34	103	100	19 527.6
1967 CENSUS.	4 466	1 769	263.7	1 958.4	170.2	343.4	1 033.4	4 071.1	4 117.6	8 147.4	295.6	1.36	103	99	19 323.2
1966 ASM....	(NA)	(NA)	260.1	1 868.4	167.5	347.5	989.3	3 863.9	4 122.0	7 889.9	231.7	1.37	102	98	19 024.5
1965 ASM....	(NA)	1	252.5	1 740.7	162.4	330.7	912.9	3 549.4	3 865.0	7 358.0	179.0	1.40	99	92	18 010.2
1964 ASM....	(NA)	0	244.1	1 635.6	156.8	318.3	874.4	3 151.6	3 474.4	6 613.7	153.5	1.41	96	89	17 268.5
1963 CENSUS.	4 692	1 705	250.2	1 613.8	160.3	321.9	852.9	3 015.6	(NA)	(NA)	155.8	1.48	98	87	16 958.4
PATERSON-CLIFTON-PASSAIC SMSA															
1977 CENSUS.	1 558	636	65.3	856.5	44.1	86.2	475.8	1 647.8	1 601.2	3 244.3	83.3	.33	100	100	19 596.9
1976 ASM....	(NA)	(NA)	62.3	772.4	42.0	83.3	426.0	1 391.8	1 310.6	2 690.3	88.4	.33	95	96	18 753.0
1975 ASM....	(NA)	(NA)	59.9	698.9	39.8	78.7	391.6	1 227.2	1 212.5	2 484.1	74.2	.33	92	94	18 302.2
1974 ASM....	(NA)	(NA)	68.2	705.6	46.3	92.3	401.9	1 293.2	1 293.0	2 565.2	65.0	.34	105	102	19 844.8
1973 ASM....	(NA)	(NA)	77.6	697.4	56.3	107.2	422.3	1 304.9	1 095.0	2 368.9	55.9	.39	119	102	19 897.9
1972 CENSUS.	1 590	669	75.5	671.6	54.7	107.3	406.5	1 179.4	1 055.0	2 245.0	58.7	.40	116	98	19 028.7
PHILADELPHIA, PA.-N.J., SMSA															
1977 CENSUS.	7 946	2 909	451.8	6 364.7	293.5	569.0	3 510.6	13 429.6	18 223.2	31 507.5	723.4	2.31	100	100	19 596.9
1976 ASM....	(NA)	(NA)	437.2	5 780.4	283.5	546.3	3 117.0	11 646.4	15 866.9	27 467.4	566.0	2.33	97	96	18 753.0
1975 ASM....	(NA)	(NA)	449.2	5 425.6	286.8	549.5	2 897.0	10 353.2	14 633.5	24 957.1	606.0	2.45	99	94	18 302.2
1974 ASM....	(NA)	(NA)	502.1	5 495.7	330.8	642.0	3 103.4	10 998.0	14 561.2	25 275.5	758.8	2.53	111	102	19 844.8
1973 ASM....	(NA)	(NA)	503.5	5 112.9	342.7	667.2	2 974.2	10 055.7	11 392.0	21 276.9	620.1	2.53	111	102	19 897.9
1972 CENSUS.	7 889	3 161	495.7	4 774.6	331.4	644.3	2 714.6	9 189.9	9 904.2	19 049.5	570.0	2.61	110	98	19 028.7
1971 ASM....	(NA)	(NA)	500.2	4 505.1	330.7	648.0	2 518.0	8 693.5	9 396.6	18 156.1	535.4	2.72	111	94	18 363.1
1970 ASM....	(NA)	(NA)	538.2	4 554.9	358.5	705.5	2 569.1	8 575.5	9 340.8	17 898.1	550.4	2.80	119	99	19 217.2
1969 ASM....	(NA)	(NA)	578.3	4 675.5	387.2	771.4	2 648.9	9 047.4	9 110.9	18 046.9	563.7	2.89	128	103	20 035.5
1968 ASM....	(NA)	(NA)	573.3	4 367.3	388.5	772.9	2 501.6	8 365.7	8 657.2	17 017.3	501.3	2.94	127	100	19 527.6
1967 CENSUS.	7 938	3 317	573.8	4 125.2	397.5	782.5	2 405.6	7 958.8	8 242.1	16 016.5	624.9	2.97	127	99	19 323.2
1966 ASM....	(NA)	(NA)	571.0	3 973.8	396.1	793.0	2 333.9	7 541.4	8 113.1	15 431.0	523.5	3.00	126	98	19 024.5
1963 CENSUS.	8 287	3 212	535.8	3 310.6	374.8	743.5	1 998.1	6 031.6	(NA)	(NA)	297.5	3.16	119	87	16 958.4
WILMINGTON, DEL.-N.J.-MD., SMSA															
1977 CENSUS.	530	212	62.8	1 169.3	29.7	57.5	419.3	1 481.6	3 435.7	4 874.6	158.4	.32	100	100	19 596.9
1976 ASM....	(NA)	(NA)	62.8	1 085.6	29.8	59.2	392.6	1 500.5	3 182.8	4 640.6	154.3	.33	100	96	18 753.0
1975 ASM....	(NA)	(NA)	59.1	949.3	28.2	54.5	331.6	1 086.0	2 458.0	3 596.5	143.5	.32	94	94	18 302.2
1974 ASM....	(NA)	(NA)	62.7	924.9	31.4	63.0	348.6	1 292.7	2 689.0	3 874.0	151.1	.32	100	102	19 844.8
1973 ASM....	(NA)	(NA)	66.6	844.6	34.2	67.5	339.1	1 271.9	2 184.6	3 465.9	119.1	.33	106	102	19 897.9
1972 CENSUS.	491	213	64.1	763.6	33.0	64.8	306.0	1 161.3	2 037.4	3 202.5	91.0	.34	102	98	19 028.7
1971 ASM....	(NA)	(NA)	66.8	751.7	33.3	65.7	287.9	1 214.9	1 854.3	3 052.6	91.8	.36	106	94	18 363.1
1970 ASM....	(NA)	(NA)	67.8	721.2	32.9	63.8	253.1	1 019.9	1 461.9	2 479.3	78.2	.35	108	99	19 217.2
1969 ASM....	(NA)	(NA)	71.7	717.0	36.5	72.4	267.0	1 073.9	1 592.2	2 661.8	76.7	.36	114	103	20 035.5
1968 ASM....	(NA)	(NA)	69.7	696.7	34.9	71.2	257.1	1 096.2	1 527.2	2 619.6	92.3	.36	111	100	19 527.6
1967 CENSUS.	455	229	68.0	605.1	36.0	70.3	233.4	846.0	1 445.2	2 290.6	127.1	.35	108	99	19 323.2
1966 ASM....	(NA)	(NA)	67.2	607.2	34.0	63.8	224.0	904.5	1 463.8	2 348.3	94.8	.35	107	98	19 024.5
1965 ASM....	(NA)	(NA)	64.8	568.8	32.5	67.7	215.6	833.2	1 481.7	2 315.5	68.7	.36	103	92	18 010.2
1964 ASM....	(NA)	(NA)	62.9	517.1	31.5	63.9	192.6	776.0	1 182.6	1 944.5	59.9	.36	100	89	17 268.5
1963 CENSUS.	480	206	59.4	468.6	30.4	61.1	178.2	702.6	(NA)	(NA)	60.8	.35	95	87	16 958.4

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
NEW JERSEY									
1977 CENSUS	14 037	63	1 952	5.82	56	77	29 364	48	23.91
1976 ASM	13 190	62	1 978	5.35	56	77	27 576	48	22.38
1975 ASM	12 201	62	1 941	5.07	56	78	23 746	51	19.73
1974 ASM	11 041	65	1 963	4.61	56	78	22 470	49	17.63
1973 ASM	10 098	66	1 946	4.28	51	75	20 838	48	16.30
1972 CENSUS	9 696	65	1 959	4.07	50	75	19 626	49	15.32
1971 ASM	9 113	65	1 978	3.79	50	75	18 071	50	14.06
1970 ASM	8 404	66	1 981	3.47	50	75	16 784	50	12.91
1969 ASM	7 968	67	1 984	3.33	51	75	16 137	49	12.13
1968 ASM	7 358	68	1 985	3.19	50	74	15 445	48	11.51
1967 CENSUS	7 177	69	1 994	3.01	51	76	14 454	50	10.58
1966 ASM	6 899	69	2 016	2.88	52	76	13 972	49	10.05
1965 ASM	6 628	69	2 015	2.79	52	76	13 332	50	9.55
1964 ASM	6 426	68	2 019	2.72	52	77	12 447	52	9.00
1963 CENSUS	6 176	69	1 996	2.64	(NA)	(NA)	12 008	51	8.69
NEW YORK-NEWARK-JERSEY CITY, N.Y.-N.J.-CONN., SCSA									
1977 CENSUS	13 568	61	1 901	5.33	52	76	27 056	50	23.25
1972 CENSUS	8 058	52	1 907	3.80	51	78	17 508	46	17.57
PHILADELPHIA-WILMINGTON-TRENTON, PA.-DEL.-N.J.-MD., SCSA									
1977 CENSUS	14 664	62	1 942	6.28	59	80	28 695	51	23.66
1972 CENSUS	14 547	92	1 958	4.22	51	77	18 415	79	10.26
ALLENTOWN-BETHLEHEM-EASTON, PA.-N.J., SMSA									
1977 CENSUS	13 400	71	1 858	6.05	53	78	25 584	52	19.38
1976 ASM	12 518	69	1 906	5.46	56	80	23 078	54	17.49
1975 ASM	11 573	69	1 878	5.15	58	83	19 728	59	15.27
1974 ASM	10 618	71	1 922	4.68	57	81	20 285	52	14.87
1973 ASM	9 546	72	1 881	4.37	51	76	19 254	50	14.24
1972 CENSUS	8 882	73	1 849	3.98	50	77	16 355	54	12.12
1971 ASM	8 240	72	1 873	3.69	47	77	14 410	57	10.65
1970 ASM	7 668	73	1 883	3.41	49	78	13 932	55	10.12
1969 ASM	7 348	74	1 891	3.28	51	80	12 441	59	8.87
1968 ASM	6 958	73	1 892	3.13	49	79	11 991	58	8.66
1967 CENSUS	6 468	74	1 883	2.91	50	81	10 655	61	7.69
1966 ASM	6 193	75	1 912	2.74	51	81	10 346	60	7.23
1965 ASM	5 943	75	1 930	2.64	52	82	9 732	61	6.72
1964 ASM	5 777	74	1 892	2.56	50	81	9 465	61	6.72
1963 CENSUS	5 527	74	1 888	2.45	(NA)	(NA)	8 893	62	6.32
JERSEY CITY SMSA									
1977 CENSUS	12 045	75	1 873	5.53	58	77	27 456	44	19.67
1976 ASM	11 168	74	1 937	4.92	59	76	27 569	41	19.28
1975 ASM	10 995	73	1 948	4.81	57	75	26 126	42	18.44
1974 ASM	9 975	75	1 874	4.57	58	78	21 885	46	15.48
1973 ASM	9 386	75	1 914	4.22	55	76	20 609	46	14.27
1972 CENSUS	8 913	75	1 912	4.02	52	74	19 929	45	13.95
1971 ASM	8 354	75	1 920	3.78	50	72	19 115	44	13.33
NEW BRUNSWICK-PERTH AMBOY-SAYREVILLE SMSA									
1977 CENSUS	14 600	62	1 970	6.15	58	75	36 603	40	30.07
1971 ASM	8 386	54	2 006	3.74	497	748	17 158	49	15.91
1970 ASM	8 839	61	2 000	3.50	50	76	17 083	52	14.04
1969 ASM	8 196	63	1 992	3.33	50	75	16 490	50	13.14
1968 ASM	7 855	64	2 008	3.22	50	74	16 398	48	12.86
1967 CENSUS	7 427	65	2 018	3.01	51	75	15 438	48	11.86
1966 ASM	7 183	64	2 075	2.85	52	76	14 855	48	11.12
1965 ASM	6 894	64	2 036	2.76	53	76	14 057	49	10.73
1964 ASM	6 701	64	2 030	2.75	53	77	12 911	52	9.90
1963 CENSUS	6 450	64	2 008	2.65	(NA)	(NA)	12 053	54	9.37
NEW YORK, N.Y.-N.J., SMSA									
1977 CENSUS	12 946	61	1 860	4.97	52	77	24 954	52	21.85
1976 ASM	12 180	60	1 880	4.61	53	79	22 032	55	19.63
1975 ASM	11 735	59	1 882	4.40	53	80	20 228	58	18.24
1974 ASM	10 857	61	1 891	4.00	53	81	18 670	58	16.32
1973 ASM	9 743	63	1 857	3.78	52	80	16 689	58	14.30
1972 CENSUS	9 337	62	1 878	3.61	51	80	15 930	59	13.66
1971 ASM	8 715	62	1 892	3.44	49	78	15 354	57	13.12
1970 ASM	8 156	63	1 904	3.20	48	78	14 136	58	11.72
1969 ASM	7 711	64	1 917	3.04	49	79	13 316	58	10.77
1968 ASM	7 414	65	1 827	3.08	50	79	13 030	57	10.93
1967 CENSUS	7 071	65	1 915	2.76	50	80	12 030	59	9.62
1966 ASM	6 572	65	1 917	2.55	52	81	11 297	58	9.04
1965 ASM	6 303	66	1 923	2.48	52	80	10 814	58	8.55
1964 ASM	6 224	65	1 940	2.47	52	82	10 099	62	8.01
1963 CENSUS	5 971	66	1 913	2.42	(NA)	(NA)	9 944	60	7.85

See footnotes at end of table.

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years—Con.

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	NEWARK SMSA								
1977 CENSUS	15 084	57	1 976	5.92	55	77	30 811	49	27.39
1976 ASM	14 441	55	2 004	5.50	54	77	28 583	51	26.03
1975 ASM	12 926	55	1 933	5.08	54	79	23 974	54	22.40
1974 ASM	11 694	59	1 986	4.63	54	78	23 503	50	19.90
1973 ASM	10 849	59	1 977	4.38	49	74	21 996	49	18.82
1972 CENSUS	10 284	59	1 976	4.13	48	74	20 635	50	17.66
1971 ASM	8 386	54	2 006	3.74	49	74	17 158	49	15.91
1970 ASM	8 839	61	2 000	3.50	50	76	17 083	52	14.04
1969 ASM	8 196	63	1 992	3.33	50	75	16 490	50	13.14
1968 ASM	7 855	64	2 008	3.22	50	74	16 398	48	12.86
1967 CENSUS	7 427	65	2 018	3.01	51	75	15 438	48	11.86
1966 ASM	7 183	64	2 075	2.85	52	76	14 855	48	11.12
1965 ASM	6 894	64	2 036	2.76	53	76	14 057	49	10.73
1964 ASM	6 701	64	2 030	2.75	53	77	12 911	52	9.90
1963 CENSUS	6 450	64	2 008	2.65	(NA)	(NA)	12 053	54	9.37
	PATERSON-CLIFTON-PASSAIC SMSA								
1977 CENSUS	13 126	68	1 956	5.52	49	76	25 253	52	19.11
1976 ASM	12 398	67	1 983	5.11	49	77	22 340	55	16.71
1975 ASM	11 668	66	1 977	4.98	49	77	20 487	57	15.59
1974 ASM	10 346	68	1 994	4.35	50	78	18 962	55	14.01
1973 ASM	8 987	73	1 904	3.94	46	76	16 816	53	12.17
1972 CENSUS	8 895	72	1 962	3.79	47	77	15 621	57	12.17
1971 ASM	8 980	66	1 989	3.64	50	78	16 351	55	12.48
1970 ASM	8 089	66	1 992	3.33	49	75	15 632	52	11.94
1969 ASM	7 895	66	2 003	3.30	52	78	14 650	54	11.10
1968 ASM	7 434	67	2 006	3.12	51	76	13 825	54	10.25
1967 CENSUS	6 952	69	1 998	2.91	51	77	13 193	53	9.61
1966 ASM	6 657	68	2 016	2.80	52	76	12 352	54	8.95
1965 ASM	6 393	69	2 050	2.69	52	77	12 150	53	8.58
1964 ASM	6 193	69	2 038	2.64	52	77	11 589	53	8.28
1963 CENSUS	5 967	70	2 016	2.59	(NA)	(NA)	11 348	53	8.10
	PHILADELPHIA, PA.-N.J., SMSA								
1977 CENSUS	14 089	65	1 939	6.17	58	78	29 728	47	23.60
1976 ASM	13 221	65	1 927	5.71	58	79	25 778	50	21.32
1975 ASM	12 078	64	1 916	5.27	59	80	23 048	52	18.84
1974 ASM	10 945	66	1 941	4.83	58	79	21 904	50	17.13
1973 ASM	10 155	68	1 947	4.46	54	78	19 972	51	15.07
1972 CENSUS	9 632	67	1 944	4.21	52	77	18 539	52	14.26
1971 ASM	9 007	66	1 959	3.89	52	77	17 380	52	13.42
1970 ASM	8 463	67	1 968	3.64	52	78	15 934	53	12.16
1969 ASM	8 085	67	1 992	3.43	50	76	15 645	52	11.73
1968 ASM	7 618	68	1 989	3.24	51	77	14 592	52	10.82
1967 CENSUS	7 189	69	1 969	3.07	51	77	13 870	52	10.17
1966 ASM	6 959	69	2 002	2.94	53	78	13 207	53	9.51
1963 CENSUS	6 179	70	1 984	2.69	(NA)	(NA)	11 257	55	8.11
	WILMINGTON, DEL.-N.J.-MD., SMSA								
1977 CENSUS	18 610	47	1 941	7.29	70	94	23 579	79	25.75
1976 ASM	17 287	47	1 987	6.63	69	92	23 893	72	25.35
1975 ASM	16 063	48	1 933	6.08	68	95	18 376	87	19.93
1974 ASM	14 751	50	2 006	5.53	69	93	20 617	72	20.52
1973 ASM	12 682	51	1 974	5.02	63	87	19 098	66	18.84
1972 CENSUS	11 913	51	1 964	4.72	64	87	18 117	66	17.92
1971 ASM	11 253	50	1 973	4.38	61	85	18 187	62	18.49
1970 ASM	10 637	49	1 939	3.97	59	88	15 043	71	15.99
1969 ASM	10 000	51	1 984	3.69	60	87	14 978	67	14.83
1968 ASM	9 996	50	2 040	3.61	58	85	15 727	64	15.40
1967 CENSUS	8 899	53	1 953	3.32	63	90	12 441	72	12.03
1966 ASM	9 036	51	1 876	3.51	62	88	13 460	67	14.18
1965 ASM	8 778	50	2 083	3.18	64	89	12 858	68	12.31
1964 ASM	8 221	50	2 029	3.01	61	87	12 337	67	12.14
1963 CENSUS	7 889	51	2 010	2.92	(NA)	(NA)	11 828	67	11.50

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	15 696	15 069
With 1 to 19 employees	do	9 921	9 151
With 20 to 99 employees	do	4 144	4 238
With 100 employees or more	do	1 631	1 680
All employees, average for year[1]	1,000	778.3	836.1
Payroll for year, all employees[1]	mil. dollars	10 924.2	8 107.2
Production workers:			
Average for year	1,000	489.6	546.6
March	do	482.2	539.9
May	do	487.1	540.9
August	do	492.8	548.7
November	do	494.7	557.0
Hours	millions	955.8	1 070.9
January to March	do	233.5	264.0
April to June	do	243.7	271.3
July to September	do	235.1	260.9
October to December	do	243.5	274.7
Wages	mil. dollars	5 561.7	4 353.7
Cost of materials, etc.[2]	do	28 633.9	16 149.8
Materials, parts, containers, etc., consumed	do	25 229.0	14 253.3
Resales	do	1 541.0	887.3
Fuels consumed	do	619.1	254.9
Purchased electric energy	do	516.2	231.3
Contract work	do	728.6	523.1
Value of shipments, including resales[2]	do	51 279.4	32 409.7
Value of resales	do	1 872.9	1 170.4
Value added by manufacture	do	22 852.8	16 408.9
Manufacturers' inventories:			
Beginning of year	do	6 561.2	4 405.6
Finished products	do	2 347.2	1 705.0
Work in process	do	1 846.5	1 281.1
Materials, supplies, fuel, etc.	do	2 367.5	1 419.5
End of year	do	6 965.5	4 511.7
Finished products	do	2 489.8	1 721.3
Work in process	do	1 914.2	1 351.3
Materials, supplies, fuel, etc.	do	2 561.5	1 439.1
Capital expenditures for plant and equipment	do	1 486.7	991.7
New capital expenditures	do	1 376.3	940.1
New buildings and other structures	do	297.5	222.8
New machinery and equipment	do	1 078.8	717.3
Used capital expenditures	do	110.4	51.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	13,958.0	1
New capital expenditures	1,421.5	1
Used capital expenditures	129.6	9
Retirements	500.8	3
End of year	15,008.2	1
Buildings and other structures:		
Beginning of year	4,103.7	1
New capital expenditures	296.5	4
Used capital expenditures	(31.9)	16
Retirements	92.7	6
End of year	4,339.3	1
Machinery and equipment:		
Beginning of year	9,854.2	1
New capital expenditures	1,125.0	1
Automobiles, trucks, etc., for highway use	34.9	(NA)
Computers and peripheral data processing equip.	24.7	(NA)
All other	819.1	(NA)
New machinery and equipment, n.s.k.	246.3	(NA)
Used capital expenditures	97.7	10
Retirements	408.2	3
End of year	10,668.7	1

Item	Amount (million dollars)	Standard error of estimate (percent)
Rental payments:		
Total	317.8	3
Buildings and other structures	179.9	3
Machinery and equipment	137.5	6
Depreciation charges during 1977:		
Total	920.8	2
Buildings and other structures	169.6	2
Machinery and equipment	751.2	2
Supplemental labor costs:		
Total	1,788.0	1
Legal costs	748.4	1
Voluntary costs	1,039.6	1
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	72.0	6
Response coverage ratio (percent)	61	(X)
Machinery	(227.6)	46
Response coverage ratio (percent)	61	(X)
Cost of purchased communication services	(119.3)	(A)
Response coverage ratio (percent)	60	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
New Jersey	–	**15 696**	**5 775**	**778.3**	**10 924.2**	**489.6**	**955.8**	**5 561.7**	**22 852.8**	**28 633.9**	**51 279.4**	**1 376.3**	**836.1**	**16 408.9**
STANDARD CONSOLIDATED STATISTICAL AREAS														
New York-Newark-Jersey City, N.Y.-N.J.-Conn.	–	41 325	13 366	1 502.0	20 379.2	919.2	1 747.6	9 319.5	40 638.1	44 236.4	84 486.0	1 949.6	1 694.5	29 668.0
Portion in New York	–	28 079	8 404	843.4	10 892.4	526.8	980.4	4 906.3	21 404.8	21 192.0	42 411.4	856.6	991.4	15 715.6
Portion in New Jersey	–	12 395	4 649	609.2	8 626.2	372.8	729.4	4 206.0	18 046.3	22 244.9	40 093.0	1 036.2	658.0	13 133.8
Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md.	–	8 964	3 306	550.5	8 072.4	343.8	667.7	4 192.6	15 796.6	22 402.4	38 008.3	921.5	597.8	11 008.5
Portion in New Jersey	–	2 103	730	112.7	1 619.3	73.8	142.9	903.0	3 159.9	4 732.5	7 864.4	222.0	115.7	2 167.2
Portion in Pennsylvania	–	6 390	2 391	384.5	5 457.7	247.5	480.5	2 977.7	11 537.3	14 774.4	26 189.7	587.8	428.8	7 985.9
Portion in Delaware	–	419	160	50.7	966.4	20.7	40.6	294.8	1 035.3	2 798.4	3 792.3	107.4	49.6	803.1
Portion in Maryland	–	52	25	2.6	29.0	1.9	3.7	17.0	64.0	97.1	161.8	4.2	3.7	52.3
STANDARD METROPOLITAN STATISTICAL AREAS														
Allentown-Bethlehem-Easton, Pa.-N.J.	–	1 183	621	106.8	1 430.8	75.8	140.9	853.3	2 731.8	3 105.1	5 828.2	172.8	110.4	1 805.6
Portion in New Jersey	–	154	76	12.6	172.9	8.6	17.1	102.5	422.9	523.6	974.2	39.4	14.5	349.2
Portion in Pennsylvania	–	1 029	545	94.2	1 257.9	67.2	123.8	750.8	2 308.9	2 581.5	4 853.9	133.4	95.9	1 456.4
Atlantic City	–	211	66	8.7	88.7	7.0	13.1	64.7	284.4	147.7	430.4	(D)	10.4	225.5
Jersey City	–	1 857	655	72.2	870.1	53.8	100.8	557.5	1 983.4	2 733.7	4 702.1	94.6	95.3	1 899.2
Long Branch-Asbury Park	–	616	181	26.6	351.8	15.9	31.0	155.6	755.3	719.6	1 471.9	29.5	26.1	465.8
New Brunswick-Perth Amboy-Sayreville	–	1 147	540	80.5	1 174.7	49.7	97.9	602.3	2 945.2	3 986.3	6 864.2	164.7	80.5	2 021.7
New York, N.Y.-N.J.	–	25 831	8 040	796.6	10 313.0	489.0	909.7	4 519.2	19 878.3	21 494.9	41 187.9	862.5	949.2	15 120.8
Portion in New York	–	23 252	7 136	687.5	8 793.4	425.2	783.6	3 806.7	17 034.5	17 811.4	34 681.7	660.0	839.0	13 162.4
Portion in New Jersey	–	2 579	904	109.1	1 519.7	63.8	126.1	712.5	2 843.8	3 683.6	6 506.1	202.6	110.2	1 958.4
Newark	–	4 638	1 733	255.5	3 853.3	145.5	287.4	1 702.3	7 870.8	9 520.5	17 304.3	461.5	271.8	5 608.6
Paterson-Clifton-Passaic	E1	1 558	636	65.3	856.5	44.1	86.2	475.8	1 647.8	1 601.2	3 244.3	83.3	75.5	1 179.4
Philadelphia, Pa.-N.J.	–	7 946	2 909	451.8	6 364.7	293.5	569.0	3 510.6	13 429.6	18 223.2	31 507.5	723.4	495.7	9 189.9
Portion in New Jersey	–	1 556	518	67.2	907.0	46.0	88.5	532.9	1 892.3	3 448.8	5 317.8	135.6	69.3	1 255.8
Portion in Pennsylvania	–	6 390	2 391	384.5	5 457.7	247.5	480.5	2 977.7	11 537.3	14 774.4	26 189.7	587.8	426.3	7 934.1
Trenton	–	488	185	35.9	538.4	20.7	41.1	262.7	885.4	743.4	1 626.2	39.7	35.6	608.0
Vineland-Millville-Bridgeton	–	254	104	18.9	223.2	15.5	29.3	167.8	500.9	432.0	927.1	37.1	22.5	313.6
Wilmington, Del.-N.J.-Md.	–	530	212	62.8	1 169.3	29.7	57.5	419.3	1 481.6	3 435.7	4 874.6	158.4	64.1	1 161.3
Portion in New Jersey	–	59	27	9.6	174.0	7.1	13.3	107.5	382.2	540.2	920.4	(D)	10.8	306.6
Portion in Delaware	–	419	160	50.7	966.4	20.7	40.6	294.8	1 035.3	2 798.4	3 792.3	107.4	49.6	803.1
Portion in Maryland	–	52	25	2.6	29.0	1.9	3.7	17.0	64.0	97.1	161.8	(D)	3.7	51.6
COUNTIES														
Atlantic	–	211	66	8.7	88.7	7.0	13.1	64.7	284.4	147.7	430.4	(D)	10.4	225.5
Bergen	–	2 579	904	109.1	1 519.7	63.8	126.1	712.5	2 843.8	3 683.6	6 506.1	202.6	110.2	1 958.4
Burlington	–	486	169	21.1	272.3	14.6	28.0	165.7	590.9	635.9	1 225.2	36.4	21.7	412.5
Camden	–	806	253	32.8	446.2	22.0	42.2	253.2	952.1	1 102.5	2 033.7	53.0	35.9	638.2
Cape May	E1	76	12	0.9	8.2	0.7	1.1	5.5	11.8	22.7	34.4	0.9	1.3	13.6
Cumberland	–	254	104	18.9	223.2	15.5	29.3	167.8	500.9	432.0	927.1	37.1	22.5	313.6
Essex	–	2 006	710	86.1	1 195.1	54.8	106.1	586.7	2 460.2	2 272.2	4 751.1	118.1	104.0	1 912.4
Gloucester	–	264	96	13.3	188.4	9.4	18.2	114.0	349.2	1 710.4	2 058.9	46.2	11.8	205.1
Hudson	–	1 857	655	72.2	870.1	53.8	100.8	557.5	1 983.4	2 733.7	4 702.1	94.6	95.3	1 899.2
Hunterdon	–	148	58	6.0	80.6	3.9	8.0	43.9	181.1	302.0	481.4	11.8	4.2	85.7
Mercer	–	488	185	35.9	538.4	20.7	41.1	262.7	885.4	743.4	1 626.2	39.7	35.6	608.0
Middlesex	–	1 147	540	80.5	1 174.7	49.7	97.9	602.3	2 945.2	3 986.3	6 864.2	164.7	80.5	2 021.7
Monmouth	–	616	181	26.6	351.8	15.9	31.0	155.6	755.3	719.6	1 471.9	29.5	26.1	465.8
Morris	–	774	259	48.4	796.8	20.2	39.7	219.1	1 148.4	887.3	1 998.7	56.7	43.0	833.5
Ocean	–	242	53	6.4	75.3	5.0	9.9	50.0	184.4	163.8	348.5	16.0	5.1	76.6
Passaic	E1	1 558	636	65.3	856.5	44.1	86.2	475.8	1 647.8	1 601.2	3 244.3	83.3	75.5	1 179.4
Salem	–	59	27	9.6	174.0	7.1	13.3	107.5	382.2	540.2	920.4	(D)	10.8	306.6
Somerset	–	360	140	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	25.8	627.3
Sussex	–	113	27	2.9	29.8	2.1	5.0	18.3	61.2	64.7	126.1	3.1	2.8	41.3
Union	–	1 498	624	92.6	1 419.0	55.7	112.5	705.3	3 265.8	5 651.7	8 876.9	183.5	99.0	2 235.3
Warren	–	154	76	12.6	172.9	8.6	17.1	102.5	422.9	523.6	974.2	39.4	14.5	349.2
PLACES														
Asbury Park	–	26	9	1.4	9.8	0.5	0.8	3.7	18.1	19.3	37.3	1.2	1.3	13.5
Atlantic City	E3	46	14	0.9	8.5	0.7	1.4	5.9	13.6	12.3	25.9	0.5	1.8	16.3
Barrington	–	9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bayonne	–	94	49	5.0	62.1	3.7	7.1	39.7	159.6	332.2	494.4	11.9	6.2	119.4
Belleville	–	124	32	4.5	58.8	2.9	6.0	33.2	121.9	91.0	214.3	7.3	7.9	168.8
Bellmawr	–	34	8	0.9	10.7	0.6	1.2	6.6	20.1	26.5	46.8	0.7	1.0	13.5
Belmar	–	11	4	0.5	4.3	0.4	0.6	3.1	10.0	6.8	16.3	(D)	0.5	3.4
Belvidere	–	11	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bergenfield	E2	40	8	0.9	8.0	0.4	0.7	3.6	11.0	7.5	18.4	0.5	0.6	8.2
Berkeley Heights twp	–	26	16	1.5	20.0	0.8	1.7	8.9	40.7	26.4	65.0	1.7	1.3	23.9
Bloomfield	–	95	35	5.8	77.9	3.7	7.6	38.2	89.1	117.4	204.2	3.8	7.9	65.7
Bogota	–	15	4	0.7	8.2	0.5	1.1	7.0	19.1	53.7	72.5	(D)	(NA)	(NA)
Boonton	–	35	10	1.4	14.5	0.8	1.5	7.6	24.8	30.6	55.5	1.2	2.5	37.3
Bound Brook	–	30	9	2.2	32.5	1.3	2.6	17.7	104.9	99.5	210.2	(D)	5.6	144.0
Bridgeton	–	39	19	3.9	48.9	3.4	6.5	40.0	107.8	136.5	243.8	8.9	5.8	87.3
Bridgewater twp	–	39	22	8.6	135.2	3.6	6.9	49.8	347.0	160.9	500.7	43.1	3.2	100.2
Buena	–	15	9	1.0	11.8	0.8	1.6	8.0	22.5	22.8	45.3	2.9	0.7	10.0
Burlington	E1	40	12	1.6	17.3	1.3	2.6	12.6	55.3	35.4	90.4	2.9	3.1	55.5
Burlington twp	–	12	8	1.5	20.3	1.0	2.1	12.5	67.2	102.2	170.9	(D)	1.3	13.5
Butler	–	24	8	0.6	6.7	0.4	0.9	3.9	11.8	16.3	28.1	0.9	1.0	14.0
Camden	–	177	62	12.2	184.2	7.7	14.7	96.4	346.0	406.8	736.8	17.8	15.7	262.5
Carlstadt	E1	160	93	7.2	90.0	5.0	9.6	51.2	189.3	223.0	406.3	18.6	7.6	120.4
Carteret	–	43	26	3.5	53.6	2.7	5.6	39.5	163.9	251.9	414.1	13.0	4.4	94.4

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972—Con.

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
PLACES—Con.														
Cedar Grove twp	–	38	20	1.5	17.7	1.1	2.2	11.0	37.6	27.5	64.0	3.0	1.5	22.9
Chatham	E1	36	8	0.6	8.9	0.4	0.7	3.3	12.2	6.7	19.0	0.5	(NA)	(NA)
Cherry Hill twp	E1	122	37	4.9	67.7	2.6	4.6	27.7	113.8	91.5	203.2	5.6	4.2	58.9
Cinnaminson twp	–	43	20	1.9	26.4	1.3	2.8	17.0	76.8	89.7	166.1	5.3	1.3	8.6
Clark twp	–	26	14	4.6	83.9	3.3	6.7	59.5	183.6	105.9	289.2	9.6	7.7	94.4
Clifton	–	304	125	13.2	185.3	8.2	16.5	88.9	361.5	356.6	714.2	19.3	15.7	258.9
Closter	–	14	6	1.0	9.6	0.8	1.8	7.0	18.1	24.2	43.6	0.8	0.7	10.9
Cranford twp	–	56	25	3.1	36.6	2.0	4.1	22.5	138.8	72.9	214.1	4.2	3.3	102.5
Cresskill	–	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Denville twp	E3	29	7	0.8	8.2	0.6	1.1	5.1	17.0	11.9	28.8	0.7	1.2	13.1
Dover	–	34	12	1.5	17.1	1.0	2.1	10.6	37.2	51.5	88.2	2.1	2.5	78.0
Dover twp	–	49	13	2.0	31.0	1.4	2.8	19.4	94.3	84.4	182.3	(D)	2.0	36.0
East Brunswick twp	–	49	14	2.6	42.6	0.8	1.4	9.8	29.0	44.3	72.4	1.9	1.4	22.3
East Orange	E1	73	26	2.8	29.0	2.1	3.8	17.9	53.8	51.0	108.7	3.0	3.4	58.0
East Rutherford	–	84	35	6.4	95.5	3.1	6.5	41.2	149.0	176.0	320.2	9.6	7.3	129.0
East Windsor twp	–	15	8	2.7	44.3	0.3	0.4	4.5	32.1	14.9	47.5	(D)	(NA)	(NA)
Eatontown	–	15	4	0.9	12.7	0.6	1.3	7.0	29.8	12.9	41.8	1.3	0.8	13.5
Edgewater	–	31	13	1.6	24.9	1.0	1.9	12.6	44.6	192.1	245.1	1.3	2.2	57.5
Edison twp	–	146	79	15.5	223.2	10.1	19.5	127.7	588.7	959.3	1 534.6	28.2	12.8	407.9
Egg Harbor City	–	21	8	0.8	7.5	0.7	1.3	6.4	13.0	8.5	21.3	0.2	1.5	21.7
Elizabeth	–	237	109	17.2	219.1	11.5	22.4	124.0	453.1	653.8	1 089.5	34.1	15.4	301.4
Elmwood Park	–	70	34	3.5	35.5	2.6	5.1	22.2	104.3	94.8	197.4	17.7	(NA)	(NA)
Englewood	–	116	48	3.4	44.6	2.2	4.6	24.4	120.5	104.9	224.4	5.1	3.4	74.8
Englewood Cliffs	–	37	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.6	30.5
Ewing twp	–	57	20	5.4	96.7	4.5	9.3	77.3	211.7	109.2	317.0	12.4	5.1	115.6
Fairfield	E1	206	76	5.8	75.3	3.9	7.3	40.2	145.2	115.9	259.8	6.0	5.6	102.9
Fair Lawn	–	72	36	5.0	67.8	3.5	7.0	42.0	192.4	153.3	340.7	6.9	4.6	121.0
Fairview	E2	129	24	1.6	17.9	1.4	2.7	12.9	29.2	38.4	67.4	1.0	1.3	22.0
Flemington	–	35	16	1.1	15.7	0.7	1.3	7.5	33.2	117.2	150.3	3.1	1.6	43.5
Florham Park	–	14	9	4.1	83.8	1.0	1.6	12.9	83.3	44.4	124.2	(D)	(D)	(D)
Fort Lee	E2	40	9	0.8	11.2	0.3	0.6	2.9	12.2	10.4	22.2	0.3	0.7	6.3
Franklin	–	9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Franklin twp	E1	53	23	2.5	33.5	1.7	3.2	19.2	65.5	85.1	147.6	6.4	1.4	24.2
Franklin Lakes	–	29	6	1.6	38.3	0.2	0.4	1.9	10.0	10.1	19.7	0.2	3.2	5.0
Freehold	–	24	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Freehold twp	–	20	13	2.4	28.7	1.7	3.5	17.8	87.5	79.6	165.9	2.7	1.6	43.3
Garfield	E1	133	43	4.2	48.1	3.2	6.1	30.0	99.7	96.6	195.9	4.6	4.8	66.7
Garwood	E1	38	15	1.8	21.4	1.4	2.8	13.9	44.1	34.9	78.7	2.0	1.7	28.7
Glassboro	–	26	10	1.1	13.1	0.9	1.6	9.5	27.9	37.6	65.6	0.9	1.2	18.6
Glen Rock	E1	18	4	0.7	7.8	0.1	0.3	1.4	9.2	4.5	13.8	0.1	0.8	2.2
Gloucester twp	–	36	15	1.2	12.6	0.9	1.8	7.9	29.9	26.5	55.9	0.5	1.0	17.3
Gloucester City	–	33	12	1.2	15.9	0.9	1.8	11.1	46.5	63.5	108.9	3.5	1.3	21.7
Guttenberg	E4	83	10	0.8	7.4	0.7	1.3	5.5	15.6	12.7	28.3	0.8	0.8	11.9
Hackensack	E1	196	48	5.1	58.1	3.5	6.5	32.3	120.1	92.0	209.5	7.7	6.2	103.1
Hackettstown	–	22	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	66.9
Haledon	–	24	9	1.1	13.5	0.9	1.7	8.9	25.6	66.1	90.2	1.3	1.0	16.6
Hamilton twp	–	88	31	5.1	65.4	3.8	7.7	45.8	149.6	170.7	322.3	5.9	4.1	105.8
Hammonton	–	35	10	2.2	22.2	1.9	3.4	17.7	122.7	34.8	156.4	1.0	2.6	106.9
Hanover twp	E1	69	36	7.6	130.7	2.7	5.5	31.9	142.1	132.3	261.7	15.9	8.4	89.0
Harrison	–	42	19	4.3	62.6	2.5	5.2	29.2	124.0	119.3	239.3	10.9	9.5	140.4
Hawthorne	–	103	39	2.8	36.1	2.1	4.2	23.0	75.8	78.6	153.9	2.8	3.3	59.3
Highland Park	E1	18	6	0.6	8.7	0.4	0.7	4.6	18.2	9.8	28.0	0.1	0.5	9.1
Hightstown	–	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	31.6
Hillsborough twp	–	21	7	0.5	7.2	0.4	0.8	4.7	59.3	46.0	106.4	5.1	(NA)	(NA)
Hillside twp	–	110	46	5.6	78.0	3.6	7.0	44.0	247.4	202.9	449.5	10.6	6.2	196.0
Hoboken	–	189	99	8.5	101.1	6.9	14.1	74.0	161.8	519.0	674.3	8.7	11.2	282.5
Hopewell twp	–	5	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Irvington	–	121	32	2.7	33.3	2.0	3.9	19.8	66.7	64.1	131.0	2.1	6.1	56.1
Jersey City	–	402	166	19.1	220.8	13.4	24.1	133.1	649.8	633.1	1 286.8	(D)	23.2	576.9
Kearny	–	130	62	11.8	185.5	8.4	15.5	118.2	425.4	455.8	878.9	17.6	17.6	373.0
Kenilworth	–	113	43	5.7	81.7	3.4	6.9	39.6	149.9	123.0	269.8	9.2	5.5	105.4
Keyport	–	21	7	0.5	5.6	0.4	0.8	3.8	16.4	33.7	49.9	1.5	0.7	8.5
Lakewood twp	–	64	22	3.3	33.2	2.8	5.6	23.4	68.3	56.7	121.8	4.1	1.8	23.2
Lawrence twp	–	22	12	2.7	46.5	0.8	1.6	7.8	25.3	17.9	43.1	1.0	1.7	15.5
Linden	–	205	94	16.9	308.6	11.6	24.3	187.8	916.8	3 716.4	4 623.2	57.5	18.8	627.2
Little Falls twp	–	46	21	2.0	23.2	1.4	2.7	13.9	46.8	48.1	94.9	3.0	4.4	43.5
Little Ferry	–	48	17	1.0	12.8	0.7	1.5	8.2	35.4	22.9	54.4	2.3	1.1	19.9
Livingston twp	–	51	15	3.7	66.3	0.7	1.6	7.5	30.3	18.4	50.0	(D)	3.2	27.2
Lodi	E2	79	30	2.5	30.7	1.7	3.4	15.7	58.8	85.0	144.9	5.0	3.0	46.2
Long Branch	E1	43	15	1.2	10.5	1.0	1.8	6.7	18.0	12.1	29.8	0.5	1.4	15.0
Lyndhurst twp	–	60	22	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	35.3
Mahwah twp	–	29	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Manville	–	19	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Maple Shade twp	–	31	9	0.7	7.9	0.4	0.7	3.6	12.0	17.5	29.6	1.1	0.8	11.3
Maplewood twp	E2	38	6	0.7	7.8	0.5	1.0	5.1	12.5	11.5	24.0	0.9	0.8	11.6
Marlboro twp	–	26	10	0.7	8.3	0.5	0.9	4.9	14.4	15.6	31.0	0.9	0.8	12.3
Matawan twp	–	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Maywood	–	18	10	0.8	9.3	0.5	1.0	5.6	22.2	29.9	53.3	1.9	0.8	19.6
Metuchen	–	44	15	1.2	15.6	1.0	1.9	9.3	61.6	45.7	102.4	1.0	1.3	35.8
Middlesex	–	92	25	2.2	27.4	1.6	3.5	16.3	74.1	69.3	134.6	4.0	1.9	40.7
Midland Park	E1	34	6	0.6	7.8	0.4	0.8	4.1	17.5	14.0	31.3	(D)	0.7	17.4
Milltown	–	11	6	0.9	11.7	0.7	1.4	7.9	16.8	37.8	54.1	1.4	1.5	27.6
Millville	–	56	22	6.4	81.7	5.2	10.0	59.7	178.6	114.0	292.0	15.4	7.9	110.8

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972—Con.

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
PLACES—Con.														
Monroe twp	-	25	11	1.0	8.2	0.8	1.3	6.0	14.3	7.5	21.5	0.6	0.5	6.8
Montclair	E2	51	10	0.8	9.5	0.5	0.9	3.8	11.1	6.7	17.5	0.5	(NA)	(NA)
Montvale	-	16	8	1.4	36.2	0.1	0.3	1.7	5.8	6.0	11.8	0.3	(D)	(D)
Montville twp	E1	43	13	1.2	14.8	0.6	1.2	6.5	21.5	17.2	38.4	1.0	0.7	9.3
Moonachie	-	60	39	4.3	49.5	3.1	6.1	31.3	102.9	111.9	212.7	7.6	3.8	72.7
Moorestown twp	-	51	19	4.4	78.7	3.0	5.8	50.6	139.4	125.4	264.3	4.7	3.9	105.1
Morris twp	-	30	16	5.1	110.7	0.7	1.5	8.7	83.8	71.8	155.3	1.7	(D)	(D)
Morris Plains	-	11	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	70.1
Morristown	-	28	4	0.9	8.8	0.3	0.6	3.9	16.8	8.6	25.3	0.5	3.9	112.7
Mountainside	-	38	20	1.7	24.1	1.1	2.3	13.8	44.9	35.7	79.0	3.3	1.7	28.6
Mount Holly twp	E1	27	12	1.0	9.0	0.8	1.4	6.2	14.2	13.8	27.7	1.0	1.0	13.8
Mount Laurel twp	E1	19	6	1.2	12.0	0.8	1.5	6.7	19.1	13.1	32.7	1.2	(D)	(D)
Neptune twp	E3	31	15	1.0	9.0	0.8	1.5	5.7	15.4	13.9	29.2	0.9	1.0	15.0
Netcong	E3	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	8.9
Newark	-	906	367	38.6	489.0	27.6	52.8	297.6	1 058.0	1 345.8	2 396.6	51.2	47.3	803.8
New Brunswick twp	-	94	47	6.0	92.5	3.3	6.4	39.2	133.0	185.9	310.5	7.4	7.1	127.1
New Providence	-	25	15	6.5	130.5	1.2	2.5	11.1	57.7	57.1	113.6	1.3	7.3	41.4
Newton	E2	26	8	0.5	5.2	0.3	0.6	2.8	11.9	9.0	21.0	0.3	0.7	9.7
North Arlington	E1	24	5	0.5	5.9	0.3	0.6	2.3	11.9	7.5	18.5	1.0	0.7	11.0
North Bergen twp	E1	207	73	8.3	98.4	6.6	12.6	67.7	210.3	324.0	530.6	6.9	11.1	189.2
North Brunswick twp	-	27	14	7.8	138.5	4.5	9.5	68.7	430.0	259.1	674.9	28.0	9.2	315.0
North Plainfield	-	20	6	1.8	31.7	1.2	2.3	17.1	46.5	28.0	72.8	(D)	0.5	5.7
Northvale	-	46	25	2.2	25.9	1.5	2.9	13.5	66.5	86.9	153.1	2.1	1.8	40.5
Norwood	-	31	11	1.0	11.1	0.7	1.3	5.9	19.7	21.2	40.7	2.1	0.6	11.5
Nutley	-	46	15	10.1	211.9	3.9	8.0	53.5	615.3	221.3	864.7	29.5	10.3	446.8
Oakland	E1	27	14	1.3	15.5	0.8	1.6	8.0	51.2	34.0	83.9	1.6	0.6	8.2
Oceanport	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Old Bridge twp	-	13	8	0.5	5.0	0.3	0.7	3.3	12.3	8.7	20.9	1.3	(NA)	(NA)
Orange	E1	76	22	2.4	30.6	1.3	2.4	12.5	35.7	22.8	58.3	1.2	3.0	37.0
Palisades Park	-	58	14	1.6	22.6	1.0	1.9	10.5	66.0	100.2	165.8	3.6	2.0	35.7
Paramus	-	61	25	2.8	39.4	1.2	2.1	11.9	48.0	44.8	89.9	1.8	2.2	27.1
Parsippany-Troy Hills twp	-	54	34	5.0	78.6	2.2	4.4	22.1	181.1	118.1	293.4	3.9	4.1	116.9
Passaic	E1	233	109	10.4	108.9	8.1	15.7	75.4	210.4	215.0	423.6	8.1	14.3	212.5
Paterson	E1	567	233	18.6	214.0	14.5	27.8	143.1	470.4	502.8	971.8	22.8	23.7	370.7
Paulsboro	-	11	8	0.5	5.2	0.4	0.7	3.7	21.3	25.9	47.1	0.8	1.2	4.6
Pennsauken twp	-	161	71	6.8	82.8	5.0	9.5	53.0	192.6	318.5	508.7	11.5	7.0	148.0
Pennsville twp	-	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Perth Amboy	-	96	43	4.5	48.4	3.5	6.6	32.7	202.6	644.1	844.4	17.2	7.8	129.6
Phillipsburg	-	37	21	5.5	78.8	3.3	6.5	42.6	169.3	175.5	354.9	14.6	5.5	99.3
Piscataway twp	-	63	43	7.0	110.7	3.2	6.1	35.5	173.9	166.4	334.9	16.4	4.3	96.0
Pitman	-	21	6	2.3	25.2	1.9	3.9	18.6	47.1	49.0	94.7	2.4	2.1	26.3
Plainfield	-	72	23	2.2	25.8	1.7	4.7	16.5	57.9	52.2	110.3	1.4	2.6	50.5
Pleasantville	E2	23	7	0.5	5.7	0.3	0.6	3.4	17.2	11.0	27.8	(D)	0.5	11.9
Pompton Lakes	-	27	9	1.0	16.2	0.7	1.4	9.3	34.4	17.2	51.8	1.2	1.0	17.4
Princeton	-	41	10	2.1	42.5	0.9	1.7	16.8	53.3	29.4	80.5	1.5	2.0	43.0
Princeton twp	-	32	12	0.7	9.4	0.4	0.7	3.6	18.2	6.3	24.2	0.7	0.9	2.8
Rahway	-	82	31	7.1	124.7	3.1	6.1	38.2	244.3	104.5	347.8	15.8	4.9	106.9
Ramsey	-	21	9	0.8	10.9	0.3	0.6	3.1	11.9	9.8	21.7	0.8	0.5	6.7
Randolph twp	E1	29	5	0.5	5.6	0.3	0.5	3.1	12.3	11.8	23.2	0.8	(NA)	(NA)
Raritan	-	24	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Red Bank	E1	34	8	0.5	4.8	0.4	0.5	3.0	10.9	5.8	16.2	0.4	0.9	9.9
Ridgefield	-	53	26	4.3	65.7	2.5	5.2	26.8	106.3	130.0	241.6	2.7	4.3	97.6
Ridgefield Park	E2	26	10	0.8	11.0	0.6	1.2	7.4	20.5	23.3	46.1	1.5	0.7	18.1
Rockaway	E1	35	10	1.0	13.0	0.7	1.4	6.7	27.0	17.0	44.4	0.8	1.4	30.3
Rockaway twp	-	21	11	1.9	24.5	1.2	2.4	13.4	55.3	52.3	105.8	2.6	1.3	25.7
Roseland	-	21	13	1.9	25.5	1.2	2.0	12.0	60.8	72.8	130.2	2.7	1.4	30.3
Roselle	E3	92	29	2.1	23.3	1.6	2.9	15.7	42.1	40.5	82.6	3.7	2.6	43.5
Roselle Park	E1	29	6	0.6	6.8	0.5	0.9	4.7	11.0	7.9	18.9	(D)	2.4	41.6
Roxbury twp	E2	27	9	1.0	12.1	0.7	1.5	8.3	28.4	21.8	49.6	1.1	0.8	15.6
Rutherford	-	44	11	1.4	18.3	0.9	1.6	9.6	48.0	50.6	94.4	3.1	1.6	26.5
Saddle Brook twp	E1	77	34	4.0	47.3	2.8	5.6	27.7	94.8	95.4	191.3	5.8	3.4	53.9
Salem	-	12	8	1.6	17.2	1.4	2.4	14.5	36.2	28.6	65.4	(D)	(D)	(D)
Sayreville	-	33	13	4.5	77.5	3.2	6.2	46.0	235.2	273.2	500.9	9.0	3.6	111.7
Secaucus	-	53	29	2.9	32.0	1.8	3.2	16.8	60.9	142.8	202.8	1.9	2.4	43.2
Somerville	-	56	18	3.0	52.7	1.3	2.4	14.4	67.0	34.9	101.0	7.5	4.8	85.1
South Brunswick twp	-	47	29	3.4	52.0	1.8	3.7	22.5	165.9	170.8	335.1	4.8	3.3	73.8
South Plainfield	-	124	59	5.4	66.8	3.8	7.8	38.6	154.9	225.8	379.3	5.8	4.3	89.3
South River	-	40	17	1.2	8.1	1.1	1.7	7.2	13.9	6.7	20.5	(D)	1.2	10.5
Spotswood	-	5	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Springfield twp	-	62	27	2.5	37.2	1.6	3.1	18.5	57.0	75.2	131.2	3.7	2.2	35.3
Stanhope	-	10	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Summit	-	35	8	2.6	48.4	0.4	0.9	6.3	137.1	34.9	173.5	(D)	3.1	89.3
Teaneck twp	E1	39	14	1.5	15.4	0.7	1.4	5.8	22.8	18.4	41.0	0.6	1.0	9.7
Tinton Falls	-	15	10	1.0	12.6	0.5	1.1	4.4	21.1	20.3	40.9	1.0	(NA)	(NA)
Totowa	-	48	27	3.8	51.9	2.1	4.1	26.8	154.7	118.8	273.2	9.2	3.2	72.8
Trenton	-	173	71	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.3	237.8
Union twp	-	191	94	10.5	142.6	6.3	12.4	76.6	424.0	294.1	712.1	12.6	11.3	297.5
Union Beach	-	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Union City	E2	293	61	4.6	39.8	3.9	6.6	29.3	67.7	45.2	113.8	2.3	5.7	65.9
Vineland	-	124	52	7.5	80.9	6.2	11.4	60.1	176.5	136.8	308.9	10.4	7.6	94.0
Wall twp	E1	25	9	0.8	8.7	0.6	1.2	5.2	21.6	23.3	44.2	1.1	0.6	9.4
Wallington	E2	35	12	1.2	12.4	1.0	1.9	8.8	23.2	21.2	44.5	0.8	(D)	(D)
Wanaque	-	19	6	0.6	6.7	0.4	0.9	4.3	19.9	22.3	41.2	(D)	1.2	20.9

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972—Con.

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
PLACES—Con.														
Washington	-	16	8	1.1	12.1	1.0	1.8	9.2	27.2	31.0	58.5	3.0	1.7	30.5
Washington twp	-	18	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wayne twp	E1	86	34	6.6	114.9	2.2	4.6	26.2	136.5	112.8	245.4	7.2	6.4	87.5
West Caldwell	-	31	18	2.3	30.6	1.6	3.3	18.0	54.9	53.6	108.4	2.6	1.8	35.5
West Deptford twp	-	20	10	1.0	14.5	0.7	1.4	8.6	57.7	70.3	127.1	2.8	0.6	15.9
West Long Branch	-	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
West New York	E3	294	56	4.8	40.4	4.3	8.0	30.4	67.9	87.7	152.2	(D)	5.4	60.6
West Orange	E1	54	14	1.3	16.2	0.8	1.5	7.4	37.3	23.8	61.4	2.0	2.4	22.3
West Paterson	-	29	9	4.4	76.7	3.0	5.8	50.3	92.5	49.5	151.6	(D)	0.5	8.1
Westville	-	19	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Westwood	E1	42	8	0.5	6.1	0.4	0.7	3.2	13.2	6.9	19.9	1.4	0.5	8.0
Wharton	-	15	5	1.6	22.3	1.1	2.2	14.9	47.1	38.9	86.6	2.8	1.4	34.5
Winslow twp	-	14	7	0.9	11.9	0.7	1.5	8.8	37.8	28.7	66.7	(D)	0.6	17.9
Woodbridge twp	-	111	61	8.4	117.4	4.9	9.9	60.9	276.5	416.0	696.1	14.3	7.7	203.6
Wood-Ridge	-	20	9	2.1	39.0	1.0	1.9	12.9	66.7	68.0	135.7	1.8	3.6	83.7
Wyckoff twp	E2	22	9	0.9	10.1	0.7	1.3	6.5	20.3	32.4	52.9	0.7	0.7	13.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	**15 696**	**5 775**	**778.3**	**10 924.2**	**489.6**	**955.8**	**5 561.7**	**22 852.8**	**28 633.9**	**51 279.4**	**1 376.3**	**836.1**	**16 408.9**
20	**Food and kindred products**	-	**753**	**329**	**43.2**	**595.8**	**30.8**	**60.5**	**380.1**	**1 996.4**	**4 063.4**	**6 072.5**	**108.5**	**53.7**	**1 513.0**
201	Meat products	-	96	45	4.4	56.4	3.7	7.3	42.2	110.5	538.1	649.1	12.0	5.2	111.9
2011	Meat packing plants	E1	31	7	0.7	9.8	0.6	1.2	8.0	25.6	164.9	191.4	0.5	1.3	55.7
2013	Sausages and other prepared meats	-	50	28	2.2	34.0	1.7	3.5	24.4	60.1	298.8	359.2	8.2	3.0	45.4
2016	Poultry dressing plants	E4	7	5	0.9	6.4	0.8	1.5	5.4	11.0	21.1	31.7	2.2	CC	(D)
2017	Poultry and egg processing	-	8	5	0.7	6.2	0.6	1.1	4.3	13.8	53.3	66.8	1.1	AA	(D)
202	Dairy products	E1	78	30	2.6	37.7	1.4	3.0	18.5	91.1	349.5	440.2	6.7	3.0	70.5
2022	Cheese, natural and processed	-	13	4	0.3	3.0	0.2	0.4	1.7	4.9	56.9	61.2	0.5	BB	(D)
2024	Ice cream and frozen desserts	E3	25	7	0.5	7.3	0.3	0.7	4.0	13.2	26.1	39.5	0.5	0.6	14.0
2026	Fluid milk	-	35	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	49.3
203	Preserved fruits and vegetables	-	95	43	7.7	94.1	6.0	11.6	67.4	330.9	473.9	803.7	18.5	10.0	190.9
2032	Canned specialties	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2033	Canned fruits and vegetables	E1	28	11	1.4	15.6	1.0	1.8	10.3	55.3	102.1	157.7	3.8	2.7	51.3
2034	Dehydrated fruits, vegetables, and soups	-	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2035	Pickles, sauces, and salad dressings	-	21	9	0.8	12.0	0.6	1.2	8.3	53.6	102.3	155.6	2.8	EE	(D)
2037	Frozen fruits and vegetables	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2038	Frozen specialties	E1	26	11	1.5	17.3	1.2	2.6	11.9	38.7	47.0	85.7	2.2	1.6	22.0
204	Grain mill products	-	32	13	0.9	11.0	0.6	1.3	7.3	57.3	100.1	155.4	1.1	1.0	16.5
2045	Blended and prepared flour	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2047	Dog, cat, and other pet food	E1	8	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	6.5
2048	Prepared feeds, n.e.c.	E1	16	4	0.3	3.8	0.2	0.4	2.5	14.4	41.9	56.3	0.4	0.7	7.4
205	Bakery products	-	154	55	9.3	123.8	6.4	12.5	76.8	368.4	289.3	656.6	20.9	11.8	280.2
2051	Bread, cake, and related products	-	140	47	5.6	73.2	3.3	6.5	39.9	205.9	158.1	363.9	15.8	6.9	141.1
2052	Cookies and crackers	-	14	8	3.8	50.6	3.0	6.0	36.9	162.5	131.2	292.7	5.1	4.9	139.1
206	Sugar and confectionery products	-	50	23	3.1	39.2	2.4	4.7	26.5	144.3	286.4	436.8	7.1	3.8	95.7
2065	Confectionery products	-	43	19	2.5	31.0	2.0	3.8	21.1	115.2	206.1	327.4	(D)	3.2	78.0
2067	Chewing gum	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
207	Fats and oils	-	22	15	1.5	23.3	1.1	2.2	15.0	125.6	262.4	388.4	9.9	2.2	73.4
2076	Vegetable oil mills, n.e.c.	-	3	3	0.3	4.7	0.2	0.5	3.2	10.2	41.4	54.7	(D)	AA	(D)
2077	Animal and marine fats and oils	-	12	6	0.4	8.4	0.3	0.6	3.9	43.1	63.7	103.4	(D)	BB	(D)
2079	Shortening and cooking oils	-	7	6	0.7	10.2	0.6	1.2	7.8	72.4	157.2	230.2	6.6	EE	(D)
208	Beverages	-	106	56	7.4	120.4	4.8	8.9	69.8	401.6	581.9	983.8	(D)	9.2	313.0
2082	Malt beverages	-	8	6	3.1	55.3	2.5	4.3	40.4	138.4	211.5	350.1	3.5	4.1	128.3
2085	Distilled liquor, except brandy	-	7	7	0.7	10.4	0.5	1.0	7.0	34.2	63.5	98.7	(D)	0.7	18.4
2086	Bottled and canned soft drinks	-	49	24	2.2	34.3	1.0	2.1	12.2	142.8	199.0	341.3	7.3	2.8	95.1
2087	Flavoring extracts and sirups, n.e.c.	-	34	17	1.2	18.5	0.7	1.4	8.8	82.8	94.4	176.7	3.5	1.2	59.0
209	Miscellaneous foods and kindred products	-	120	49	6.3	89.9	4.4	9.0	56.6	366.8	1 181.7	1 558.5	17.0	7.6	360.9
2091	Canned and cured seafoods	-	9	6	0.4	4.6	0.4	0.7	3.0	11.0	21.8	32.8	1.4	CC	(D)
2092	Fresh or frozen packaged fish	E1	19	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2095	Roasted coffee	-	13	8	2.7	45.5	1.9	4.2	30.2	214.9	977.8	1 204.7	5.8	3.6	268.9
2098	Macaroni and spaghetti	-	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2099	Food preparations, n.e.c.	-	59	21	1.6	23.3	1.1	2.3	13.7	87.7	133.0	218.8	7.0	2.0	58.9
22	**Textile mill products**	**E1**	**527**	**249**	**23.4**	**247.6**	**19.6**	**39.7**	**185.3**	**453.1**	**631.9**	**1 078.6**	**(D)**	**29.9**	**453.6**
2211	Weaving mills, cotton	E2	16	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2221	Weaving mills, manmade fiber and silk	-	18	11	0.8	9.7	0.6	1.3	6.7	15.9	28.4	44.4	0.4	1.9	23.7
2241	Narrow fabric mills	E1	24	9	0.5	4.7	0.4	0.8	3.3	10.9	8.1	19.0	0.6	0.9	11.3
225	Knitting mills	E1	216	91	9.9	90.9	8.8	17.3	72.4	167.7	260.8	422.7	(D)	12.4	174.0
2253	Knit outerwear mills	E2	98	51	4.2	33.4	3.8	7.1	27.1	56.5	41.9	95.1	(D)	3.6	39.0
2257	Circular knit fabric mills	-	45	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.7	92.3
2258	Warp knit fabric mills	-	44	20	2.2	23.3	1.9	4.0	17.2	36.9	52.1	90.5	(D)	2.1	30.6
2259	Knitting mills, n.e.c.	E8	22	1	0.2	1.5	0.2	0.4	1.1	2.3	2.8	5.1	0.1	BB	(D)
226	Textile finishing, except wool	E1	93	70	6.0	75.9	5.0	10.6	58.9	133.0	152.1	285.7	(D)	7.8	133.7
2261	Finishing plants, cotton	E3	20	14	1.0	11.8	0.8	1.8	9.3	22.7	13.2	35.8	(D)	1.3	15.1
2262	Finishing plants, synthetics	-	53	42	3.3	46.4	2.7	6.0	37.2	77.2	59.8	139.2	(D)	4.7	87.5
2269	Finishing plants, n.e.c.	-	20	14	1.7	17.6	1.4	2.9	12.4	33.2	79.1	110.7	(D)	1.8	31.1
227	Floor covering mills	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2272	Tufted carpets and rugs	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
228	Yarn and thread mills	E2	32	12	0.9	8.4	0.8	1.6	5.8	14.2	31.8	45.3	1.5	0.8	13.0
2281	Yarn mills, except wool	E4	10	3	0.3	2.5	0.3	0.5	1.8	4.2	12.2	16.1	0.5	(NA)	(NA)
2282	Throwing and winding mills	E1	16	6	0.5	4.4	0.4	0.8	2.9	7.2	16.3	23.3	0.6	0.7	9.8

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
22	**Textile mill products—Con.**														
229	Miscellaneous textile goods	E	2 117	47	4.3	48.5	3.3	6.6	31.9	93.6	115.7	208.3	(D)	5.0	85.3
2292	Lace goods	E	2 16	5	0.3	2.3	0.3	0.5	1.8	3.8	1.9	5.7	0.1	BB	(D)
2295	Coated fabrics, not rubberized	E	2 31	16	1.4	18.7	0.9	1.9	10.9	39.3	45.4	84.7	(D)	2.3	43.4
2297	Nonwoven fabrics	–	7	6	0.9	11.0	0.7	1.2	7.1	22.3	38.2	60.2	(D)	EE	(D)
2298	Cordage and twine	–	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	7.3
2299	Textile goods, n.e.c.	E	8 46	13	1.0	8.4	0.8	1.8	6.4	13.7	13.1	26.1	(D)	0.3	3.9
23	**Apparel and other textile products**	**E**	**1 920**	**791**	**59.7**	**453.7**	**52.4**	**90.6**	**346.3**	**862.3**	**857.5**	**1 706.9**	**(D)**	**69.7**	**696.7**
2311	Men's and boys' suits and coats	–	41	28	4.8	39.4	4.3	7.8	33.4	68.3	40.9	107.0	(D)	7.2	62.9
232	Men's and boys' furnishings	–	86	43	4.4	30.1	3.8	6.4	22.8	61.8	83.8	144.9	(D)	5.6	79.7
2321	Men's and boys' shirts and nightwear	E	1 19	11	1.5	8.8	1.4	2.4	7.4	14.2	16.2	30.3	(D)	1.6	29.0
2323	Men's and boys' neckwear	E	1 13	4	0.3	2.1	0.2	0.3	1.2	3.5	3.4	7.0	(D)	CC	(D)
2327	Men's and boys' separate trousers	E	2 13	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.8
2328	Men's and boys' work clothing	E	2 5	3	0.3	2.3	0.3	0.4	2.0	3.4	5.4	8.6	(D)	0.4	3.5
2329	Men's and boys' clothing, n.e.c.	–	35	20	1.9	14.7	1.5	2.8	10.4	36.9	57.3	93.7	(D)	2.3	36.4
233	Women's and misses' outerwear	E	2 816	448	28.1	200.2	25.2	41.7	157.2	382.2	327.7	706.3	(D)	29.9	250.0
2331	Women's and misses' blouses and waists	–	79	50	3.0	22.1	2.7	4.2	15.8	46.8	58.9	104.1	(D)	3.0	31.7
2335	Women's and misses' dresses	E	3 380	142	8.7	58.1	7.9	12.9	45.5	102.2	82.4	183.8	(D)	11.0	89.8
2337	Women's and misses' suits and coats	E	2 260	199	12.4	88.6	11.2	18.4	72.5	157.8	103.8	261.2	(D)	12.3	90.6
2339	Women's and misses' outerwear, n.e.c.	E	1 97	57	4.0	31.4	3.5	6.2	23.4	75.4	82.7	157.2	(D)	3.6	37.9
234	Women's and children's undergarments	–	51	27	3.5	26.4	2.6	4.6	15.0	56.3	84.6	140.4	(D)	4.6	58.6
2341	Women's and children's underwear	–	37	21	2.0	12.7	1.8	3.1	9.8	30.8	21.4	53.2	(D)	2.3	23.9
2342	Brassieres and allied garments	–	14	6	1.4	13.7	0.9	1.5	5.2	25.5	63.3	87.2	(D)	2.3	34.7
235	Hats, caps, and millinery	E	8 15	8	0.5	3.3	0.4	0.7	2.4	3.5	5.9	9.4	(D)	0.5	4.8
2351	Millinery	E	2 3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.7
2352	Hats and caps, except millinery	–	12	6	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	2.2
236	Children's outerwear	E	1 111	71	4.6	32.4	4.0	6.9	24.9	56.0	61.3	119.0	(D)	6.2	57.5
2361	Children's dresses and blouses	E	1 56	41	2.3	16.9	2.1	3.4	12.6	32.8	39.8	71.8	(D)	2.8	31.0
2363	Children's coats and suits	E	1 27	13	0.9	6.2	0.8	1.4	5.1	11.1	9.9	21.1	(D)	1.8	13.8
2369	Children's outerwear, n.e.c.	E	2 28	17	1.4	9.3	1.2	2.2	7.3	12.1	11.6	26.1	(D)	1.5	12.7
238	Miscellaneous apparel and accessories	–	71	44	3.3	23.4	3.0	5.3	18.1	39.2	33.0	71.6	(D)	4.3	40.9
2381	Fabric dress and work gloves	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2384	Robes and dressing gowns	E	1 10	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	5.7
2385	Waterproof outer garments	E	1 18	14	1.0	7.4	1.0	1.7	6.0	13.9	6.4	20.1	(D)	1.3	12.3
2386	Leather and sheep lined clothing	–	15	10	1.0	7.1	0.9	1.6	5.5	11.3	11.9	23.3	(D)	0.8	8.1
2387	Apparel belts	–	6	4	0.3	1.8	0.2	0.4	1.2	3.0	4.2	7.2	(D)	0.4	3.7
2389	Apparel and accessories, n.e.c.	E	1 18	8	0.5	3.1	0.4	0.7	2.2	4.5	4.6	9.0	(D)	CC	(D)
239	Miscellaneous fabricated textile products	E	1 722	122	10.6	98.0	9.1	17.2	72.2	194.2	217.8	405.0	(D)	11.3	138.3
2391	Curtains and draperies	E	2 39	5	0.8	5.4	0.7	1.3	4.4	9.3	7.3	16.5	0.1	1.0	7.4
2392	House furnishings, n.e.c.	–	62	31	3.1	25.2	2.7	5.1	18.7	58.6	89.1	141.7	(D)	2.6	34.4
2393	Textile bags	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	1.1
2394	Canvas and related products	E	3 45	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.1
2395	Pleating and stitching	E	3 148	16	1.4	11.7	1.2	2.2	8.7	22.7	21.8	44.3	(D)	1.7	16.3
2396	Automotive and apparel trimmings	E	2 45	11	0.7	8.7	0.6	1.1	6.4	18.9	22.4	41.1	(D)	0.8	11.2
2397	Schiffli machine embroideries	E	1 304	31	2.8	31.7	2.4	4.9	23.9	54.0	42.3	96.4	(D)	3.1	50.1
2399	Fabricated textile products, n.e.c.	E	1 75	25	1.4	11.9	1.1	2.2	7.9	24.9	25.8	50.3	(D)	1.7	15.6
24	**Lumber and wood products**	**E**	**1 357**	**72**	**5.6**	**60.9**	**4.6**	**8.8**	**39.1**	**119.6**	**151.7**	**268.5**	**(D)**	**6.2**	**82.8**
242	Sawmills and planing mills	E	2 29	3	0.2	2.0	0.2	0.4	1.6	3.7	6.5	10.2	0.4	0.4	4.4
2421	Sawmills and planing mills, general	E	2 22	1	0.2	1.3	0.2	0.3	1.2	2.3	5.5	7.8	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members	–	157	36	2.9	34.6	2.3	4.7	22.3	71.0	87.3	156.0	(D)	3.3	47.2
2431	Millwork	–	71	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	25.5
2434	Wood kitchen cabinets	–	77	13	1.4	15.3	1.2	2.4	10.2	28.6	24.6	52.9	(D)	1.3	15.6

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
24	**Lumber and wood products**—Con.													
244	Wood containers	E3	49	9	0.5	4.8	0.5	0.8	3.5	9.2	9.2	18.4	(D)	0.7	9.0
2448	Wood pallets and skids	E4	24	5	0.3	2.4	0.2	0.4	1.7	4.4	5.5	9.9	(D)	0.4	4.6
249	Miscellaneous wood products	E1	92	20	1.7	17.3	1.4	2.6	10.1	30.6	41.2	71.6	(D)	1.5	18.7
2499	Wood products, n.e.c.	E1	85	18	1.6	16.4	1.3	2.5	9.7	26.8	37.6	64.3	(D)	EE	(D)
25	**Furniture and fixtures**	**E1**	**324**	**104**	**9.6**	**100.9**	**7.5**	**15.2**	**69.3**	**196.4**	**191.4**	**382.5**	**(D)**	**10.8**	**151.8**
251	Household furniture	E1	160	38	3.8	34.9	3.0	5.7	23.7	73.9	85.6	157.6	(D)	4.9	72.7
2511	Wood household furniture	E2	81	12	0.8	6.9	0.7	1.2	5.0	15.9	17.6	33.5	(D)	1.2	16.8
2512	Upholstered household furniture	E3	21	4	0.3	2.3	0.2	0.4	1.6	3.8	4.5	8.4	(D)	0.2	2.9
2514	Metal household furniture	–	18	7	1.0	7.3	0.8	1.4	4.8	16.5	19.6	36.0	(D)	0.9	9.7
2515	Mattresses and bedsprings	E1	32	14	1.7	17.9	1.3	2.5	11.9	36.4	42.5	77.1	(D)	2.2	39.7
252	Office furniture	–	13	7	1.4	11.6	1.2	2.1	8.0	26.3	27.5	52.8	(D)	1.5	22.5
2522	Metal office furniture	–	8	6	1.4	11.1	1.1	2.0	7.7	25.3	26.6	50.8	(D)	EE	(D)
2531	Public building and related furniture	–	9	5	0.2	2.8	0.2	0.3	1.8	4.8	4.4	9.2	(D)	BB	(D)
254	Partitions and fixtures	E1	89	38	2.4	25.6	1.8	3.3	17.4	50.7	39.8	89.1	(D)	2.9	36.8
2541	Wood partitions and fixtures	E1	56	18	1.1	12.3	0.8	1.6	8.4	21.4	15.9	37.1	(D)	EE	(D)
2542	Metal partitions and fixtures	–	33	20	1.3	13.3	1.0	1.7	9.0	29.3	23.9	51.9	(D)	EE	(D)
259	Miscellaneous furniture and fixtures	–	53	16	1.8	25.9	1.4	3.7	18.4	40.6	34.2	73.8	(D)	EE	(D)
2591	Drapery hardware and blinds and shades	–	24	4	0.9	15.2	0.8	2.5	12.0	20.6	21.4	41.1	(D)	0.5	6.8
2599	Furniture and fixtures, n.e.c.	–	29	12	0.9	10.7	0.6	1.2	6.5	20.0	12.8	32.7	(D)	CC	(D)
26	**Paper and allied products**	**–**	**422**	**256**	**29.4**	**406.5**	**21.7**	**44.2**	**259.2**	**842.2**	**1 151.6**	**1 984.7**	**83.9**	**31.6**	**554.3**
2621	Paper mills, except building paper	–	12	8	2.1	37.2	1.5	3.4	25.1	71.7	126.7	199.6	6.7	2.5	57.7
2631	Paperboard mills	–	17	13	1.4	21.5	1.1	2.5	15.1	38.0	70.2	109.1	(D)	EE	(D)
264	Miscellaneous converted paper products	–	199	104	12.4	171.6	8.6	17.7	101.2	401.8	516.7	894.9	47.2	11.3	202.5
2641	Paper coating and glazing	–	40	23	2.6	39.1	1.6	3.3	20.9	76.1	103.4	179.3	2.7	2.8	54.3
2642	Envelopes	–	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2643	Bags, except textile bags	–	38	24	2.0	24.9	1.6	3.2	17.6	76.8	112.9	189.1	6.5	2.3	35.3
2645	Die-cut paper and board	–	31	12	1.5	21.7	1.1	2.4	13.7	53.9	79.6	132.3	(D)	EE	(D)
2647	Sanitary paper products	–	8	6	2.6	40.4	1.4	2.9	17.3	97.4	99.9	180.4	(D)	EE	(D)
2648	Stationery products	–	12	6	0.6	6.2	0.5	0.9	4.6	16.2	14.3	30.2	0.2	0.9	14.8
2649	Converted paper products, n.e.c.	–	59	28	2.2	26.8	1.7	3.5	18.4	58.9	87.5	141.8	3.3	0.9	18.6
265	Paperboard containers and boxes	–	190	127	12.7	165.0	9.8	19.4	109.2	309.6	421.8	734.0	23.7	14.7	242.8
2651	Folding paperboard boxes	–	40	27	2.9	36.0	2.3	4.5	25.3	66.3	63.7	132.3	4.9	2.8	46.6
2652	Setup paperboard boxes	–	18	14	0.8	8.1	0.7	1.3	5.9	13.3	10.0	23.2	0.3	1.1	14.9
2653	Corrugated and solid fiber boxes	–	93	57	5.9	86.6	4.3	8.6	52.7	154.3	231.5	385.4	14.1	7.3	119.2
2654	Sanitary food containers	–	9	6	1.6	17.3	1.2	2.4	12.3	43.7	71.6	116.2	2.3	2.0	36.5
2655	Fiber cans, drums, and similar products	–	30	23	1.5	16.9	1.2	2.5	13.0	31.9	45.1	76.8	2.0	1.6	25.7
2661	Building paper and board mills	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
27	**Printing and publishing**	**E1**	**2 006**	**394**	**45.4**	**556.5**	**24.6**	**45.4**	**282.3**	**1 166.0**	**613.0**	**1 769.9**	**57.8**	**42.0**	**754.8**
2711	Newspapers	–	221	61	11.8	131.1	3.6	6.0	44.0	293.7	108.6	402.2	13.4	11.2	215.3
2721	Periodicals	E1	111	17	1.2	14.6	0.3	0.6	2.7	39.7	26.8	66.4	1.6	EE	(D)
273	Books	E1	138	38	4.4	55.1	2.0	3.8	22.9	135.5	84.6	220.9	(D)	3.2	77.9
2731	Book publishing	–	84	18	2.5	31.2	0.6	1.1	5.9	89.5	50.9	141.8	(D)	2.3	65.5
2732	Book printing	E2	54	20	1.8	23.9	1.4	2.7	16.9	45.9	33.7	79.1	3.3	0.9	12.4
2741	Miscellaneous publishing	E1	90	14	4.7	54.8	0.7	1.4	10.1	101.9	29.5	130.7	7.3	3.8	66.4
275	Commercial printing	E1	1 124	167	13.6	179.2	10.6	19.7	121.9	341.0	246.7	585.6	20.8	13.2	228.6
2751	Commercial printing, letterpress	E2	645	69	6.4	70.9	5.2	9.5	49.5	140.3	91.6	231.0	8.5	5.9	92.7
2752	Commercial printing, lithographic	E1	433	85	6.6	99.1	4.9	9.2	65.8	184.0	148.6	331.4	11.4	5.7	105.3
2753	Engraving and plate printing	E2	27	7	0.3	4.0	0.2	0.4	2.6	8.2	3.0	11.3	0.3	0.6	8.5
2754	Commercial printing, gravure	–	19	6	0.4	5.2	0.3	0.6	4.0	8.4	3.5	12.0	0.6	1.0	22.1
2761	Manifold business forms	E1	33	16	1.0	13.6	0.7	1.3	7.7	27.0	25.3	52.2	(D)	CC	(D)
278	Blankbooks and bookbinding	–	99	49	5.8	63.3	4.6	8.8	44.8	140.0	57.0	191.9	5.5	5.3	64.0
2782	Blankbooks and looseleaf binders	–	28	19	3.1	34.1	2.2	4.6	22.6	95.1	44.1	133.8	2.6	2.6	33.3
2789	Bookbinding and related work	–	71	30	2.7	29.1	2.4	4.2	22.3	44.9	12.9	58.0	2.9	2.7	30.6
279	Printing trade services	E1	185	31	2.9	43.8	2.0	3.8	27.7	85.1	33.2	116.8	3.2	2.2	41.4
2791	Typesetting	E3	122	16	1.3	15.4	1.0	1.8	11.4	26.6	5.6	31.9	2.0	1.0	15.4
2793	Photoengraving	E1	35	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	9.8
2795	Lithographic platemaking services	–	27	11	1.3	23.8	0.8	1.6	13.3	49.0	25.1	72.9	1.0	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
28	**Chemicals and allied products**	–	**986**	**490**	**95.6**	**1 586.7**	**56.4**	**114.1**	**778.0**	**6 189.0**	**5 157.3**	**11 298.5**	**438.0**	**97.6**	**4 009.6**
281	Industrial inorganic chemicals	–	78	39	4.4	69.6	2.8	5.9	40.3	253.7	396.3	637.4	22.6	6.4	207.1
2812	Alkalies and chlorine	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2813	Industrial gases	E2	23	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2816	Inorganic pigments	–	18	10	1.1	13.9	0.8	1.5	8.9	44.1	50.2	89.1	2.2	2.1	64.2
2819	Industrial inorganic chemicals, n.e.c.	–	35	24	2.9	47.4	1.7	3.8	26.6	174.4	312.5	479.6	18.2	3.5	111.4
282	Plastics materials and synthetics	–	47	39	5.7	95.8	3.4	7.5	54.1	356.9	584.9	949.4	33.7	5.4	162.0
2821	Plastics materials and resins	–	45	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.3	160.5
283	Drugs	–	132	77	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2831	Biological products	–	18	13	2.6	40.4	1.1	2.4	14.1	99.4	46.1	142.1	6.6	0.5	14.1
2833	Medicinals and botanicals	–	32	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2834	Pharmaceutical preparations	–	82	43	23.4	420.4	11.6	23.4	155.2	1 989.0	580.7	2 549.3	93.9	25.1	1 402.7
284	Soaps, cleaners, and toilet goods	–	223	98	22.2	328.8	13.2	26.1	155.5	1 471.3	999.7	2 464.9	51.2	20.7	1 006.2
2841	Soap and other detergents	–	51	24	4.0	69.1	2.8	5.5	43.3	356.8	290.3	649.3	13.8	3.5	263.0
2842	Polishes and sanitation goods	–	59	18	2.0	28.7	1.2	2.5	16.5	195.8	155.9	352.7	6.4	2.0	115.4
2843	Surface active agents	–	32	16	1.0	16.5	0.5	1.1	7.0	44.9	102.9	147.1	4.2	1.4	40.7
2844	Toilet preparations	–	81	40	15.1	214.6	8.7	17.0	89.7	873.8	450.6	1 315.9	26.9	13.8	587.0
2851	Paints and allied products	–	146	64	5.5	81.7	3.3	6.4	39.5	277.9	329.2	602.4	10.8	6.4	189.9
286	Industrial organic chemicals	–	118	75	20.1	376.3	13.7	27.6	225.8	1 118.6	1 618.6	2 727.1	160.3	21.4	684.3
2865	Cyclic crudes and intermediates	–	42	30	12.3	237.7	8.6	16.7	141.8	605.6	805.5	1 402.9	(D)	8.3	234.0
2869	Industrial organic chemicals, n.e.c.	–	73	45	7.7	138.1	5.1	10.8	83.6	512.3	810.8	1 320.7	59.8	13.1	448.2
287	Agricultural chemicals	–	31	16	1.0	10.8	0.8	1.6	6.5	61.4	102.0	163.5	1.6	1.4	64.2
2875	Fertilizers, mixing only	–	13	5	0.2	2.2	0.2	0.3	1.2	4.7	16.8	21.1	0.4	0.2	2.9
2879	Agricultural chemicals, n.e.c.	–	18	11	0.8	8.5	0.6	1.3	5.3	56.7	85.1	142.4	1.2	EE	(D)
289	Miscellaneous chemical products	–	211	82	7.4	102.9	4.4	8.8	54.1	302.5	344.6	640.8	28.1	7.4	198.2
2891	Adhesives and sealants	–	45	20	1.4	19.9	0.9	1.9	10.8	69.3	89.9	158.7	2.9	1.1	25.9
2892	Explosives	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2893	Printing ink	–	42	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2899	Chemical preparations, n.e.c.	–	122	38	3.8	49.4	2.1	4.3	24.7	143.9	165.8	304.7	21.7	3.9	116.4
29	**Petroleum and coal products**	–	**87**	**36**	**6.7**	**125.9**	**4.6**	**9.8**	**83.3**	**209.5**	**3 930.3**	**4 126.4**	**62.8**	**FF**	**(D)**
2911	Petroleum refining	–	8	6	4.0	84.9	2.8	5.6	55.6	101.2	3 693.8	3 782.8	51.6	FF	(D)
295	Paving and roofing materials	–	51	20	1.9	28.2	1.4	3.3	20.8	64.2	151.3	215.4	8.9	EE	(D)
2951	Paving mixtures and blocks	–	37	7	0.4	6.1	0.3	0.6	3.9	17.8	33.3	51.2	2.9	CC	(D)
2952	Asphalt felts and coatings	–	14	13	1.4	22.1	1.1	2.7	16.8	46.4	118.0	164.2	6.0	EE	(D)
299	Miscellaneous petroleum and coal products	–	28	10	0.7	12.8	0.4	0.9	6.9	44.1	85.3	128.3	2.3	0.6	31.5
2992	Lubricating oils and greases	–	25	9	0.7	12.4	0.4	0.9	6.7	43.3	83.7	125.8	(D)	0.6	31.5
30	**Rubber and miscellaneous plastics products**	**E1**	**751**	**380**	**38.7**	**441.7**	**30.1**	**61.1**	**291.5**	**991.0**	**1 046.2**	**2 021.5**	**72.4**	**36.6**	**616.2**
3021	Rubber and plastics footwear	–	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3041	Rubber and plastics hose and belting	–	18	14	2.5	35.2	1.7	3.4	21.0	64.0	71.9	135.2	2.6	FF	(D)
3069	Fabricated rubber products, n.e.c.	–	69	35	4.6	52.3	3.6	7.1	34.1	113.8	98.5	210.8	4.7	4.5	62.2
3079	Miscellaneous plastics products	E1	655	326	30.8	345.8	24.2	49.4	230.8	795.0	863.4	1 645.2	64.0	26.8	459.2
31	**Leather and leather products**	–	**107**	**53**	**7.9**	**65.1**	**6.9**	**12.5**	**47.6**	**120.0**	**155.6**	**272.5**	**3.7**	**9.1**	**105.3**
3111	Leather tanning and finishing	–	31	7	1.0	13.4	0.8	1.6	9.5	21.2	50.2	71.2	(D)	2.0	31.0
314	Footwear, except rubber	–	11	9	1.4	11.3	1.2	2.2	8.4	18.0	17.3	35.2	(D)	1.2	13.5
3142	House slippers	–	6	5	0.9	8.1	0.8	1.5	5.8	12.1	11.8	23.9	(D)	CC	(D)
3143	Men's footwear, except athletic	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3149	Footwear, except rubber, n.e.c.	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3161	Luggage	–	20	13	1.7	13.7	1.5	2.8	9.9	23.5	28.9	51.1	(D)	1.4	11.5
317	Handbags and other personal leather goods	E1	34	20	3.6	24.3	3.2	5.6	18.4	50.1	37.6	87.5	(D)	4.3	46.5
3171	Women's handbags and purses	E1	21	12	2.9	19.1	2.7	4.5	15.2	33.1	27.8	61.0	(D)	FF	(D)
3172	Personal leather goods	–	13	8	0.7	5.2	0.6	1.0	3.2	17.0	9.9	26.5	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
32	**Stone, clay, and glass products**	–	**571**	**209**	**FF**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**37.0**	**698.4**
3211	Flat glass	–	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
322	Glass and glassware, pressed or blown	–	45	24	13.1	179.9	11.2	21.9	146.6	380.7	267.6	651.1	27.8	15.2	266.9
3221	Glass containers	–	15	14	11.0	150.8	9.5	18.5	124.5	319.7	234.6	560.1	23.6	FF	(D)
3229	Pressed and blown glass, n.e.c.	–	30	10	2.2	29.1	1.7	3.4	22.1	61.0	32.9	91.0	4.2	EE	(D)
3231	Products of purchased glass	–	90	37	2.9	31.7	2.4	4.7	23.5	66.5	48.5	115.3	3.7	2.8	47.4
325	Structural clay products	E1	13	3	0.5	5.4	0.4	0.8	4.2	10.2	8.6	19.0	0.5	CC	(D)
3253	Ceramic wall and floor tile	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
326	Pottery and related products	–	54	27	3.6	39.1	2.9	5.5	29.1	90.9	28.3	118.7	2.7	3.9	60.7
3261	Vitreous plumbing fixtures	–	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	14.2
3262	Vitreous china food utensils	–	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3264	Porcelain electrical supplies	–	15	9	0.8	9.0	0.6	1.3	6.0	17.3	6.2	23.3	0.4	1.3	15.9
3269	Pottery products, n.e.c.	E1	32	12	0.9	9.4	0.8	1.5	6.6	18.7	5.6	23.9	1.3	CC	(D)
327	Concrete, gypsum, and plaster products	E1	224	61	3.8	51.9	2.6	5.4	33.1	105.1	131.5	235.6	11.7	5.9	128.9
3271	Concrete block and brick	E1	46	11	0.6	7.9	0.4	0.8	4.0	18.4	25.2	43.7	1.8	1.0	21.3
3272	Concrete products, n.e.c.	E2	91	27	1.5	18.2	1.2	2.4	13.0	35.7	28.9	62.9	6.2	2.8	52.2
3273	Ready-mixed concrete	E1	80	20	1.5	21.2	0.9	1.8	13.1	42.5	58.3	100.3	2.1	1.7	43.4
3275	Gypsum products	–	7	3	0.3	4.5	0.2	0.4	3.0	8.6	19.1	28.6	1.5	BB	(D)
329	Miscellaneous nonmetallic mineral products	–	119	55	7.6	106.3	5.8	12.5	74.7	271.3	248.8	516.3	(D)	8.3	180.6
3291	Abrasive products	E1	26	10	0.6	8.1	0.5	0.9	4.9	16.6	14.7	30.9	0.3	0.5	7.7
3292	Asbestos products	–	10	9	1.1	17.2	0.9	2.0	13.6	30.3	42.2	72.6	1.8	2.1	40.4
3293	Gaskets, packing, and sealing devices	–	20	9	1.1	14.0	0.8	1.5	9.8	35.2	18.1	51.8	1.4	1.9	38.1
3295	Minerals, ground or treated	E1	21	9	0.6	8.7	0.4	0.9	5.9	18.1	36.1	54.0	4.7	0.6	13.9
3296	Mineral wool	–	11	8	2.6	36.2	2.1	5.2	28.1	122.9	92.7	216.2	9.9	1.9	54.9
3297	Nonclay refractories	–	4	3	0.5	7.5	0.3	0.6	4.5	21.0	22.5	43.7	(D)	0.7	13.0
3299	Nonmetallic mineral products, n.e.c.	–	27	7	1.1	14.6	0.8	1.3	7.9	27.3	22.6	47.1	1.1	0.5	12.5
33	**Primary metal industries**	–	**314**	**159**	**21.7**	**303.7**	**16.4**	**33.3**	**206.7**	**708.7**	**1 384.8**	**2 088.5**	**37.2**	**30.7**	**582.5**
331	Blast furnace and basic steel products	–	49	26	3.1	49.0	2.3	4.5	32.3	95.7	187.9	277.6	6.9	4.4	91.0
3312	Blast furnaces and steel mills	E3	15	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3313	Electrometallurgical products	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3315	Steel wire and related products	E1	17	7	0.7	10.5	0.5	1.0	6.8	16.9	21.5	36.7	0.5	1.1	25.9
3316	Cold finishing of steel shapes	–	5	4	0.5	8.2	0.3	0.7	5.7	16.8	30.8	47.7	(D)	CC	(D)
3317	Steel pipe and tubes	–	9	8	1.3	19.2	1.0	1.9	12.6	38.7	77.2	113.4	1.4	CC	(D)
332	Iron and steel foundries	–	33	18	3.4	45.6	2.7	5.4	32.9	100.2	86.1	186.2	3.1	4.6	77.9
3321	Gray iron foundries	–	22	13	2.4	31.9	1.9	3.8	24.2	73.9	70.6	144.4	2.3	3.5	54.7
3324	Steel investment foundries	–	4	3	0.8	10.5	0.6	1.2	6.6	22.0	11.9	33.9	(D)	CC	(D)
3325	Steel foundries, n.e.c.	E1	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
333	Primary nonferrous metals	–	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	70.0
3331	Primary copper	–	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3341	Secondary nonferrous metals	E1	25	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	27.0
335	Nonferrous rolling and drawing	–	70	50	9.0	120.9	6.7	14.0	80.7	303.7	718.6	1 019.8	12.4	11.7	244.3
3351	Copper rolling and drawing	–	11	8	1.8	25.2	1.4	3.1	18.5	57.9	233.3	290.8	1.2	2.8	53.8
3353	Aluminum sheet, plate, and foil	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3354	Aluminum extruded products	–	9	8	1.5	17.7	1.3	2.5	12.1	29.9	47.2	76.4	2.7	EE	(D)
3356	Nonferrous rolling and drawing, n.e.c.	–	17	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	35.4
3357	Nonferrous wire drawing and insulating	–	30	23	4.2	55.9	3.1	6.4	38.7	146.9	264.4	414.0	6.1	5.8	137.0
336	Nonferrous foundries	E1	66	25	1.9	23.1	1.6	3.2	17.0	42.8	39.5	81.3	3.6	2.4	33.6
3361	Aluminum foundries	E3	27	10	0.8	9.2	0.7	1.3	7.1	16.4	12.7	29.0	0.9	1.0	12.5
3362	Brass, bronze, and copper foundries	–	18	4	0.4	5.0	0.3	0.6	3.4	10.7	10.3	20.4	1.5	0.6	10.1
3369	Nonferrous foundries, n.e.c.	–	21	11	0.8	8.8	0.7	1.3	6.5	15.7	16.4	31.9	1.2	0.8	11.0
339	Miscellaneous primary metal products	–	63	25	2.0	27.4	1.4	2.8	17.1	72.6	92.7	163.8	4.1	2.0	38.7
3398	Metal heat treating	E1	32	12	0.6	8.2	0.5	1.0	5.6	14.4	5.7	20.1	0.9	0.9	14.4
3399	Primary metal products, n.e.c.	–	31	13	1.3	19.3	0.9	1.8	11.4	58.2	87.0	143.7	3.2	1.0	24.3

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
34	**Fabricated metal products**	–	**1 555**	**532**	**57.9**	**803.3**	**42.9**	**85.8**	**521.1**	**1 710.0**	**1 588.2**	**3 280.2**	**83.4**	**59.4**	**1 138.9**
341	Metal cans and shipping containers	–	45	38	6.3	107.6	5.1	10.4	82.8	284.8	373.6	658.8	9.1	8.5	198.6
3411	Metal cans	–	28	24	4.2	78.8	3.5	7.3	83.4	223.9	288.1	513.2	6.8	7.0	172.6
3412	Metal barrels, drums, and pails	–	17	14	2.0	28.8	1.5	3.1	19.3	60.9	85.5	145.5	2.3	1.4	26.0
342	Cutlery, hand tools, and hardware	–	82	35	9.3	136.2	7.7	15.5	105.1	308.5	171.0	473.8	16.8	8.6	179.4
3421	Cutlery	–	11	7	1.8	20.1	1.4	2.9	14.4	40.9	32.5	71.0	3.0	2.1	34.4
3423	Hand and edge tools, n.e.c.	–	32	16	2.1	24.0	1.7	3.4	16.6	65.3	31.3	96.0	(D)	1.6	30.5
3429	Hardware, n.e.c.	–	36	11	5.4	91.8	4.6	9.2	73.9	201.9	106.8	306.0	(D)	4.9	114.1
343	Plumbing and heating, except electric	–	35	11	1.9	19.8	1.3	2.5	11.0	43.8	39.6	83.3	1.6	1.7	32.8
3432	Plumbing fittings and brass goods	–	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3433	Heating equipment, except electric	E1	24	8	0.9	10.2	0.6	1.2	6.0	21.8	20.7	42.5	(D)	1.0	20.1
344	Fabricated structural metal products	E1	513	148	12.6	174.1	8.6	16.9	98.6	325.9	387.0	708.7	18.3	13.0	237.6
3441	Fabricated structural metal	E1	92	29	2.0	27.4	1.3	2.6	15.9	48.0	57.7	105.0	3.0	3.0	56.6
3442	Metal doors, sash, and trim	E1	70	24	1.7	17.1	1.3	2.5	10.8	35.3	41.5	76.5	1.4	EE	(D)
3443	Fabricated plate work (boiler shops)	–	88	36	4.3	71.6	2.6	5.3	33.5	130.4	119.0	247.3	6.8	2.5	49.7
3444	Sheet metal work	E1	171	39	3.1	40.2	2.3	4.5	27.0	74.9	115.0	189.7	3.6	3.9	71.8
3446	Architectural metal work	E1	66	7	0.6	6.8	0.4	0.7	3.9	15.0	11.0	25.8	(D)	0.7	10.7
3448	Prefabricated metal buildings	E1	11	8	0.7	8.2	0.5	1.0	5.7	17.8	27.9	44.7	2.9	BB	(D)
3449	Miscellaneous metal work	E3	15	5	0.3	2.9	0.2	0.3	2.0	4.4	14.8	19.7	(D)	0.6	12.7
345	Screw machine products, bolts, etc.	–	134	45	4.0	57.5	2.9	5.9	36.6	109.7	72.0	179.0	4.6	4.6	87.2
3451	Screw machine products	E1	104	27	1.8	22.1	1.5	3.1	16.4	38.0	21.7	59.3	2.1	1.8	27.0
3452	Bolts, nuts, rivets, and washers	–	30	18	2.3	35.3	1.4	2.9	20.2	71.7	50.3	119.7	2.5	2.8	60.2
346	Metal forgings and stampings	E1	187	76	6.9	86.3	5.4	10.9	60.4	162.0	158.0	318.0	9.9	6.7	107.7
3462	Iron and steel forgings	E1	11	3	0.4	5.1	0.3	0.6	3.4	8.5	9.2	17.8	0.5	0.3	5.0
3466	Crowns and closures	–	5	4	0.8	10.9	0.6	1.2	8.3	23.1	26.4	49.5	(D)	0.9	19.0
3469	Metal stampings, n.e.c.	E1	166	69	5.7	69.5	4.5	9.0	48.1	128.9	120.9	247.8	8.6	5.3	78.2
347	Metal services, n.e.c.	–	230	54	3.2	37.1	2.4	4.9	23.4	72.3	72.1	142.3	2.8	3.1	46.8
3471	Plating and polishing	E1	154	32	1.9	20.9	1.5	3.0	13.7	42.7	52.7	93.4	2.0	1.8	26.6
3479	Metal coating and allied services	–	76	22	1.4	16.2	0.9	1.9	9.8	29.5	19.4	48.8	0.8	1.3	20.2
348	Ordnance and accessories, n.e.c.	–	10	4	0.3	3.3	0.2	0.4	1.8	6.5	5.6	11.8	0.2	0.8	8.5
3483	Ammunition, except for small arms, n.e.c.	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
349	Miscellaneous fabricated metal products	–	319	121	13.4	181.3	9.2	18.3	101.5	396.5	309.4	704.5	20.2	12.3	240.5
3494	Valves and pipe fittings	–	45	29	4.8	71.2	2.9	5.6	35.4	171.6	88.8	259.4	5.4	4.7	111.8
3495	Wire springs	–	10	5	0.3	3.6	0.3	0.6	2.9	7.0	5.0	11.9	0.3	0.3	4.3
3496	Miscellaneous fabricated wire products	E1	73	24	2.0	23.3	1.5	3.1	13.7	51.2	45.0	95.1	4.6	1.7	24.2
3497	Metal foil and leaf	–	13	8	1.1	17.1	0.8	1.6	10.2	42.7	50.7	92.5	4.2	0.9	23.9
3498	Fabricated pipe and fittings	–	23	14	1.8	24.6	1.2	2.1	12.5	45.9	42.8	89.1	2.0	EE	(D)
3499	Fabricated metal products, n.e.c.	E1	151	40	3.4	40.7	2.5	5.2	26.3	76.7	75.6	153.5	3.7	3.1	48.0
35	**Machinery, except electrical**	–	**2 173**	**506**	**63.5**	**897.9**	**41.4**	**82.9**	**515.2**	**1 750.6**	**1 473.1**	**3 230.5**	**85.1**	**62.3**	**1 298.6**
351	Engines and turbines	–	17	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3511	Turbines and turbine generator sets	–	7	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
352	Farm and garden machinery	E3	15	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3523	Farm machinery and equipment	E2	14	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
353	Construction and related machinery	–	85	34	4.5	66.2	2.5	4.8	29.1	155.2	108.7	259.3	3.6	5.3	147.0
3531	Construction machinery	–	17	5	0.6	8.3	0.3	0.7	4.1	13.6	21.8	35.5	0.8	0.5	14.1
3532	Mining machinery	–	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3534	Elevators and moving stairways	–	9	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3535	Conveyors and conveying equipment	–	33	16	1.4	20.0	0.8	1.6	8.7	58.4	40.0	93.8	0.9	1.2	28.6
3537	Industrial trucks and tractors	E2	14	4	0.2	3.2	0.1	0.3	1.9	6.4	8.1	14.5	0.3	(NA)	(NA)
354	Metalworking machinery	E1	538	104	8.1	116.1	6.1	12.2	78.3	200.7	117.2	314.4	11.6	7.2	124.0
3541	Machine tools, metal cutting types	E2	31	6	0.4	5.6	0.2	0.5	3.0	10.0	5.8	15.4	0.2	0.4	7.3
3542	Machine tools, metal forming types	E3	24	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	6.0
3544	Special dies, tools, jigs, and fixtures	E2	389	59	4.4	64.7	3.6	7.4	47.7	109.0	46.3	154.0	6.7	4.5	75.5
3545	Machine tool accessories	–	54	15	1.4	19.5	0.9	1.8	11.7	37.1	26.7	62.6	2.5	CC	(D)
3549	Metalworking machinery, n.e.c.	–	38	17	1.5	19.2	1.0	1.9	11.7	35.1	30.0	64.6	1.8	1.1	19.2

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
35	**Machinery, except electrical**—Con.													
355	Special industry machinery	–	308	104	11.1	163.5	6.3	13.0	82.4	324.0	250.6	569.2	10.9	11.8	219.7
3551	Food products machinery	–	35	11	0.8	10.4	0.4	0.8	4.5	23.1	16.3	39.1	0.6	CC	(D)
3552	Textile machinery	E1	50	11	0.7	8.8	0.5	0.9	5.2	14.9	11.3	25.9	0.4	0.9	16.8
3554	Paper industries machinery	–	18	9	1.9	29.0	1.0	2.0	14.6	46.0	38.9	88.8	1.6	1.4	26.3
3555	Printing trades machinery	–	61	24	2.8	40.0	1.5	3.1	19.8	105.5	82.6	177.9	3.6	3.0	67.0
3559	Special industry machinery, n.e.c.	–	140	47	4.9	74.1	2.8	5.8	37.5	131.9	100.6	233.9	4.6	5.5	93.7
356	General industrial machinery	–	269	103	14.4	228.4	9.5	19.4	138.5	451.3	382.1	838.2	21.4	13.4	309.5
3561	Pumps and pumping equipment	–	27	10	3.0	46.6	1.7	3.4	23.5	110.9	90.3	210.4	3.7	2.8	63.0
3562	Ball and roller bearings	–	6	5	2.9	58.5	2.6	5.4	50.4	90.9	66.1	154.4	2.4	FF	(D)
3563	Air and gas compressors	–	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3564	Blowers and fans	–	25	11	1.2	14.6	0.6	1.1	6.2	37.3	45.0	77.2	2.3	1.7	66.2
3565	Industrial patterns	E3	35	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.4
3566	Speed changers, drives, and gears	–	15	8	1.0	15.8	0.8	1.5	10.5	29.6	16.7	45.6	1.3	0.8	12.4
3567	Industrial furnaces and ovens	–	26	11	1.1	18.7	0.6	1.2	8.1	36.5	33.5	69.8	(D)	0.9	18.5
3568	Power transmission equipment, n.e.c.	–	12	7	0.5	6.0	0.4	0.7	3.6	13.6	6.5	19.4	(D)	CC	(D)
3569	General industrial machinery, n.e.c.	–	117	46	3.5	49.8	2.3	4.7	26.5	104.8	70.5	173.7	2.7	2.6	49.7
357	Office and computing machines	–	72	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.8	165.5
3573	Electronic computing equipment	–	44	23	5.6	70.7	3.3	6.3	31.6	145.6	126.0	264.9	11.9	4.7	125.3
3576	Scales and balances, except laboratory	–	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3579	Office machines, n.e.c. and typewriters	–	19	7	1.9	27.3	1.0	2.0	12.1	46.5	34.3	80.5	(D)	1.6	31.8
358	Refrigeration and service machinery	–	90	38	8.3	98.0	5.6	10.2	58.0	174.8	264.9	453.5	4.4	9.1	193.9
3581	Automatic merchandising machines	–	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3582	Commercial laundry equipment	–	5	3	0.2	2.0	0.1	0.2	1.4	4.9	4.8	10.0	(D)	(NA)	(NA)
3585	Refrigeration and heating equipment	–	35	19	6.0	67.7	4.3	7.8	43.2	116.5	202.3	336.2	2.8	6.9	155.9
3589	Service industry machinery, n.e.c.	–	45	13	1.3	16.4	0.6	1.2	7.0	34.0	36.6	69.3	0.7	1.0	17.4
359	Miscellaneous machinery, except electrical	E2	779	84	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.3	105.8
3599	Machinery, except electrical, n.e.c.	E2	775	83	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
36	**Electric and electronic equipment**	–	919	390	77.6	1 089.5	53.5	101.8	630.8	1 929.6	1 350.0	3 251.0	88.3	96.5	1 590.2
361	Electric distributing equipment	–	68	34	6.1	71.1	4.5	8.4	44.5	140.7	103.2	242.6	5.3	5.6	84.3
3612	Transformers	–	20	8	1.7	15.7	1.4	2.7	11.2	27.2	31.8	59.0	1.8	1.2	11.7
3613	Switchgear and switchboard apparatus	–	48	26	4.4	55.4	3.1	5.8	33.3	113.5	71.4	183.6	3.5	4.4	72.6
362	Electrical industrial apparatus	E2	80	28	3.6	41.4	2.6	4.8	25.3	75.2	46.1	120.3	6.2	4.3	56.6
3621	Motors and generators	E1	19	11	2.1	23.7	1.6	2.9	16.2	46.3	23.0	68.9	3.7	3.0	38.0
3622	Industrial controls	E2	41	11	1.1	12.7	0.7	1.4	6.6	19.3	14.6	33.4	2.2	0.8	12.3
3624	Carbon and graphite products	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3629	Electrical industrial apparatus, n.e.c.	E4	11	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.4
363	Household appliances	–	36	15	5.2	66.7	3.8	7.4	41.7	115.1	67.3	172.9	4.4	4.2	72.1
3631	Household cooking equipment	–	4	2	0.3	2.8	0.2	0.3	2.1	6.5	6.7	13.1	0.2	AA	(D)
3634	Electric housewares and fans	–	18	9	1.3	13.4	1.1	2.3	10.5	26.1	21.2	47.1	0.8	CC	(D)
3635	Household vacuum cleaners	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3636	Sewing machines	–	7	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
364	Electric lighting and wiring equipment	–	139	68	11.0	122.8	8.0	14.7	72.5	271.6	214.1	479.5	12.4	17.4	253.9
3641	Electric lamps	–	16	6	1.7	18.1	1.5	2.9	14.6	47.0	27.7	68.7	2.0	FF	(D)
3643	Current-carrying wiring devices	–	32	16	2.7	26.8	2.1	4.0	18.2	51.1	34.9	85.6	2.0	3.6	39.3
3644	Noncurrent-carrying wiring devices	–	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3645	Residential lighting fixtures	E1	48	22	2.1	20.6	1.6	2.9	12.1	38.6	36.8	76.6	0.7	2.8	37.7
3646	Commercial lighting fixtures	–	16	8	1.4	15.0	1.1	1.7	10.4	44.7	37.0	80.9	(D)	EE	(D)
3647	Vehicular lighting equipment	–	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3648	Lighting equipment, n.e.c.	–	14	8	0.9	10.1	0.6	1.2	5.2	22.4	22.5	45.4	0.7	1.5	29.7
365	Radio and TV receiving equipment	–	62	27	4.8	44.8	3.7	7.5	29.7	90.8	97.7	189.6	4.1	3.6	50.5
3651	Radio and TV receiving sets	E1	25	9	1.5	12.0	1.1	2.1	7.1	27.7	35.2	63.1	0.9	0.7	9.0
3652	Phonograph records and prerecorded tape	–	37	18	3.3	32.8	2.5	5.4	22.5	63.1	62.5	126.5	3.1	3.0	41.5

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
36	**Electric and electronic equipment**—Con.														
366	Communication equipment	-	130	57	27.0	486.2	17.3	32.1	282.8	814.2	487.1	1 306.2	28.2	39.7	758.8
3661	Telephone and telegraph apparatus	-	9	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3662	Radio and TV communication equipment	-	121	52	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
367	Electronic components and accessories	E1	323	130	14.1	173.2	9.7	18.8	84.7	290.9	185.0	471.2	19.5	18.0	248.6
3671	Electron tubes, all types	-	13	5	1.1	14.2	0.8	1.5	6.8	22.4	15.2	36.1	2.2	FF	(D)
3674	Semiconductors and related devices	E3	34	11	2.6	45.6	1.1	2.2	13.9	34.4	17.3	51.0	5.0	2.8	17.8
3675	Electronic capacitors	-	9	7	0.7	8.0	0.6	1.0	4.7	16.0	5.5	21.7	0.6	0.7	8.7
3676	Electronic resistors	-	9	8	0.8	7.2	0.7	1.3	4.8	13.8	6.6	20.2	(D)	EE	(D)
3677	Electronic coils and transformers	E3	20	12	0.8	7.8	0.6	1.2	4.5	12.6	8.4	21.0	0.3	0.9	8.3
3678	Electronic connectors	-	5	3	0.3	3.0	0.2	0.4	1.9	8.1	8.0	16.0	(D)	BB	(D)
3679	Electronic components, n.e.c.	E1	233	84	7.7	87.5	5.6	11.1	48.0	183.7	124.0	305.2	10.0	6.7	111.3
369	Miscellaneous electrical equipment and supplies	-	81	31	5.7	83.4	4.0	8.2	49.6	131.0	149.4	268.7	8.3	3.7	65.3
3691	Storage batteries	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	28.2
3692	Primary batteries, dry and wet	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3693	X-ray, electromedical, and electrotheraputic apparatus	-	16	7	1.0	14.1	0.5	1.0	5.2	30.4	27.5	52.3	1.9	AA	(D)
3694	Engine electrical equipment	E4	17	9	1.0	10.6	0.9	1.7	7.4	20.0	17.5	36.8	1.0	0.7	11.0
3699	Electrical equipment and supplies, n.e.c.	-	39	9	2.2	32.9	1.4	2.9	16.7	18.8	47.7	66.0	1.3	1.1	12.2
37	**Transportation equipment**	-	**225**	**77**	**21.2**	**375.3**	**16.9**	**35.0**	**285.4**	**1 174.9**	**2 934.7**	**4 097.2**	**62.6**	**26.0**	**917.7**
371	Motor vehicles and equipment	-	100	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3711	Motor vehicles and car bodies	-	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3713	Truck and bus bodies	E6	25	5	0.3	3.0	0.2	0.4	2.2	5.8	8.4	14.3	0.2	(NA)	(NA)
3714	Motor vehicle parts and accessories	-	63	19	2.1	28.1	1.3	2.6	14.1	55.7	63.4	118.6	2.2	3.1	42.6
3715	Truck trailers	-	6	3	0.6	4.3	0.4	0.8	3.2	11.5	23.1	32.8	0.1	0.2	4.9
372	Aircraft and parts	-	27	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.6	109.6
3724	Aircraft engines and engine parts	-	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3728	Aircraft equipment, n.e.c.	-	18	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
373	Ship and boat building and repairing	-	81	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3731	Ship building and repairing	-	22	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3732	Boat building and repairing	-	59	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3743	Railroad equipment	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
38	**Instruments and related products**	-	**431**	**179**	**28.6**	**393.6**	**15.5**	**29.6**	**175.7**	**885.7**	**599.9**	**1 480.1**	**39.4**	**22.6**	**505.0**
3811	Engineering and scientific instruments	-	46	22	3.9	62.8	2.0	4.1	27.8	118.2	66.1	184.4	4.7	1.9	35.0
382	Measuring and controlling devices	-	127	55	6.1	84.6	3.2	6.2	34.9	183.6	116.7	292.7	7.9	4.6	71.8
3822	Environmental controls	E1	16	4	0.2	1.9	0.1	0.2	1.0	3.6	2.0	5.6	(D)	(NA)	(NA)
3823	Process control instruments	E1	26	12	0.8	10.5	0.4	0.8	4.2	26.7	11.1	37.2	0.9	0.8	10.4
3824	Fluid meters and counting devices	-	8	4	0.5	6.2	0.3	0.6	2.6	14.2	9.0	23.0	(D)	0.4	6.5
3825	Instruments to measure electricity	-	44	20	3.5	52.2	1.7	3.3	20.8	107.9	74.4	176.2	3.0	2.4	35.2
3829	Measuring and controlling devices, n.e.c.	E1	33	15	1.1	13.8	0.7	1.3	6.3	31.3	20.2	50.7	3.6	0.9	17.6
3832	Optical instruments and lenses	-	34	13	0.7	9.4	0.4	0.9	4.5	17.3	10.6	28.0	0.6	BB	(D)
384	Medical instruments and supplies	-	111	44	10.6	150.7	5.3	10.2	64.4	349.2	212.6	564.4	17.7	9.4	242.4
3841	Surgical and medical instruments	E1	40	16	3.4	46.7	1.6	3.2	17.0	69.6	60.0	128.7	6.0	4.1	71.6
3842	Surgical appliances and supplies	-	38	19	5.6	84.3	2.8	5.2	36.2	226.7	113.2	343.2	10.4	FF	(D)
3843	Dental equipment and supplies	-	33	9	1.5	19.7	0.9	1.8	11.3	53.0	39.5	92.5	1.3	CC	(D)
3851	Ophthalmic goods	-	29	9	1.1	11.4	0.9	1.8	6.8	22.2	10.5	32.0	0.4	EE	(D)
3861	Photographic equipment and supplies	-	63	26	5.2	65.9	3.0	5.1	31.9	177.0	166.3	344.0	6.6	FF	(D)
3873	Watches, clocks, and watchcases	E1	21	10	0.9	8.8	0.7	1.2	5.3	18.2	17.0	34.5	1.4	1.0	11.3

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
39	**Miscellaneous manufacturing industries**	-	**754**	**240**	**23.6**	**247.6**	**18.0**	**33.7**	**147.2**	**596.5**	**585.8**	**1 161.8**	**26.4**	**27.4**	**418.6**
391	Jewelry, silverware, and plated ware	E1	109	29	2.9	33.7	2.2	4.1	20.0	71.5	88.3	155.5	1.1	FF	(D)
3911	Jewelry, precious metal	E1	66	20	2.0	24.9	1.5	2.7	14.2	54.8	63.9	114.5	0.4	2.2	36.0
3914	Silverware and plated ware	E2	18	4	0.5	4.2	0.4	0.7	2.9	5.8	7.6	13.5	0.4	BB	(D)
3915	Jewelers' materials and lapidary work	-	25	5	0.5	4.6	0.4	0.6	2.9	10.9	16.8	27.6	0.3	0.5	7.3
3931	Musical instruments	E4	20	4	0.3	2.7	0.2	0.4	1.8	5.3	4.2	9.4	0.2	BB	(D)
394	Toys and sporting goods	-	121	56	6.0	57.5	4.7	9.1	32.3	159.3	176.0	322.5	9.0	7.5	109.2
3942	Dolls	-	16	8	1.1	11.4	0.9	1.7	5.6	46.6	44.6	82.1	2.4	CC	(D)
3944	Games, toys, and children's vehicles	-	46	22	3.4	31.8	2.6	5.2	18.0	76.5	92.3	165.7	2.9	FF	(D)
3949	Sporting and athletic goods, n.e.c.	E1	59	26	1.6	14.3	1.2	2.2	8.7	36.1	39.1	74.7	3.7	1.3	21.0
395	Pens, pencils, office and art supplies	-	77	25	2.7	27.2	2.0	4.0	17.2	66.2	60.1	126.0	3.7	2.4	48.1
3951	Pens and mechanical pencils	-	26	14	1.5	14.5	1.2	2.4	9.3	38.5	32.0	69.6	1.9	0.9	16.4
3952	Lead pencils and art goods	E1	13	4	0.4	4.7	0.3	0.5	2.3	9.3	6.5	16.1	0.5	0.5	9.7
3953	Marking devices	E3	28	1	0.2	2.2	0.2	0.3	1.3	3.9	2.7	6.5	0.1	0.4	6.5
3955	Carbon paper and inked ribbons	-	10	6	0.5	5.8	0.4	0.8	4.3	14.5	18.9	33.8	1.3	0.5	15.4
396	Costume jewelry and notions	-	60	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	31.6
3961	Costume jewelry	-	18	8	0.7	5.7	0.6	0.9	3.5	12.4	7.4	19.7	(D)	CC	(D)
3962	Artificial flowers	-	17	8	0.4	3.4	0.3	0.6	2.4	6.7	6.0	12.4	0.3	0.3	3.6
3963	Buttons	E1	11	5	0.3	2.9	0.2	0.5	1.8	4.7	3.3	8.0	0.1	BB	(D)
3964	Needles, pins, and fasteners	E1	14	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
399	Miscellaneous manufactures	-	367	99	9.3	104.0	7.0	12.8	62.1	257.0	226.8	481.0	9.7	11.3	176.2
3991	Brooms and brushes	-	21	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3993	Signs and advertising displays	-	146	41	2.7	29.7	2.0	3.7	18.6	56.7	41.5	97.9	2.6	1.9	30.2
3996	Hard surface floor coverings	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3999	Manufacturing industries, n.e.c.	E1	192	46	4.8	50.1	3.5	6.2	28.1	124.5	116.8	237.9	5.4	7.6	98.2
--	**Administrative and auxiliary**	-	511	328	86.9	1 748.6	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York-Newark-Jersey City, N.Y.-N.J.-Conn., SCSA	-	**41 325**	**13 366**	**1 502.0**	**20 379.2**	**919.2**	**1 747.6**	**9 319.5**	**40 638.1**	**44 236.4**	**84 486.0**	**1 949.6**	**1 694.5**	**29 668.0**
20	Food and kindred products	-	1 462	504	64.5	916.6	44.2	88.4	555.6	2 916.9	5 304.8	8 229.1	(D)	86.7	2 427.6
275	Commercial printing	E2	3 387	475	40.6	575.5	30.8	57.2	391.7	1 073.9	757.7	1 828.8	(D)	(NA)	(NA)
28	Chemicals and allied products	-	1 494	597	102.9	1 622.1	59.9	119.2	770.7	7 056.1	5 326.2	12 313.1	468.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	1 285	545	47.4	516.6	37.2	73.8	337.4	1 163.5	1 238.9	2 381.6	90.5	48.0	763.8
347	Metal services, n.e.c.	E1	543	129	8.5	84.4	7.0	13.7	57.3	155.8	114.0	266.8	(D)	(NA)	(NA)
	Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md., SCSA	-	**8 964**	**3 306**	**550.5**	**8 072.4**	**343.8**	**667.7**	**4 192.6**	**15 796.6**	**22 402.4**	**38 008.3**	**921.5**	**597.8**	**11 008.5**
20	Food and kindred products	-	567	256	41.5	554.3	29.1	57.4	346.8	1 542.4	2 995.6	4 528.2	(D)	43.9	997.5
201	Meat products	E1	113	52	7.9	109.0	6.1	12.2	76.1	254.6	1 049.7	1 299.4	24.9	(NA)	(NA)
2017	Poultry and egg processing	-	5	5	0.9	9.4	0.7	1.5	6.5	23.6	89.4	113.0	2.3	(NA)	(NA)
203	Preserved fruits and vegetables	-	59	29	6.3	74.8	4.9	9.2	50.9	227.1	334.2	561.6	11.7	(NA)	(NA)
204	Grain mill products	-	24	7	0.9	12.3	0.7	1.3	8.3	58.8	105.1	164.9	(D)	(NA)	(NA)
2052	Cookies and crackers	-	17	5	2.9	41.8	2.5	5.3	35.2	136.2	88.2	224.6	(D)	(NA)	(NA)
2087	Flavoring extracts and sirups, n.e.c.	E2	13	6	0.5	7.0	0.3	0.7	4.0	24.8	27.1	51.1	(D)	(NA)	(NA)
2231	Weaving and finishing mills, wool	E4	9	4	0.3	2.1	0.2	0.3	1.5	3.1	1.4	4.5	0.1	(NA)	(NA)
2241	Narrow fabric mills	E1	10	5	0.3	2.7	0.3	0.6	2.1	5.7	5.2	10.8	0.2	(NA)	(NA)
2258	Warp knit fabric mills	-	12	6	0.5	6.1	0.5	0.9	4.5	13.2	16.4	29.5	0.5	(NA)	(NA)
228	Yarn and thread mills	E1	28	23	1.9	15.3	1.7	3.3	12.3	26.9	38.0	64.8	1.5	(NA)	(NA)
2281	Yarn mills, except wool	E4	8	5	0.6	5.3	0.6	1.1	4.4	11.3	15.4	26.3	(D)	(NA)	(NA)
2282	Throwing and winding mills	-	8	8	0.6	4.5	0.5	1.1	3.8	5.8	7.7	13.7	0.1	(NA)	(NA)
2283	Wool yarn mills	-	8	7	0.3	3.1	0.3	0.6	2.4	4.8	6.7	11.4	(D)	(NA)	(NA)
2284	Thread mills	-	4	3	0.3	2.4	0.3	0.5	1.8	5.0	8.2	13.4	(D)	(NA)	(NA)
23	Apparel and other textile products	-	663	348	35.5	288.1	30.4	52.8	211.9	578.2	571.3	1 127.6	(D)	48.6	490.2
234	Women's and children's undergarments	-	11	8	0.8	5.4	0.7	1.3	3.8	11.9	11.1	23.4	0.1	(NA)	(NA)
2363	Children's coats and suits	-	5	4	0.4	3.3	0.4	0.7	2.8	6.7	2.0	8.7	(D)	(NA)	(NA)
2395	Pleating and stitching	E1	17	3	0.3	2.6	0.3	0.3	1.7	4.8	2.2	7.0	(D)	(NA)	(NA)
2514	Metal household furniture	E1	19	12	1.6	14.5	1.3	2.6	10.4	21.5	33.7	58.5	0.2	(NA)	(NA)
252	Office furniture	-	17	7	1.6	20.9	1.3	2.4	14.1	42.8	32.7	74.6	1.2	(NA)	(NA)
26	Paper and allied products	-	266	150	18.9	263.9	14.6	28.2	181.9	660.6	849.8	1 504.6	38.7	21.2	419.1
2643	Bags, except textile bags	E3	15	6	1.3	16.9	0.9	1.9	10.7	36.8	52.6	88.9	1.8	(NA)	(NA)
2648	Stationery products	-	11	2	0.3	3.3	0.3	0.5	2.6	6.3	7.2	13.5	(D)	(NA)	(NA)
2649	Converted paper products, n.e.c.	-	30	13	0.9	10.2	0.6	1.2	6.0	25.5	30.3	55.5	1.9	(NA)	(NA)
2652	Setup paperboard boxes	-	11	10	0.6	6.2	0.6	1.0	4.7	9.2	8.7	17.7	0.7	(NA)	(NA)
2654	Sanitary food containers	-	8	5	0.5	5.7	0.4	0.7	4.1	9.5	40.3	49.8	0.8	(NA)	(NA)
27	Printing and publishing	-	1 324	289	41.4	537.8	24.1	43.3	291.8	1 186.5	685.0	1 872.9	57.4	41.0	743.0
2721	Periodicals	-	62	15	3.5	41.9	0.7	1.2	6.2	251.4	153.8	405.0	1.1	(NA)	(NA)
2752	Commercial printing, lithographic	E1	322	78	6.6	97.1	4.9	9.1	66.1	156.9	116.0	277.8	7.1	(NA)	(NA)
279	Printing trade services	-	115	29	3.2	45.1	2.5	4.6	33.2	73.7	17.1	90.4	3.8	(NA)	(NA)
28	Chemicals and allied products	-	421	197	42.5	747.6	26.1	51.6	397.4	2 684.0	2 619.3	5 288.0	(D)	44.8	1 728.3
289	Miscellaneous chemical products	-	110	42	3.5	43.8	2.1	4.1	22.5	114.7	129.6	239.8	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia-Wilmington-Trenton, Pa-Del.-N.J.-Md., SCSA—Con.													
30	Rubber and miscellaneous plastics products	-	343	163	21.9	291.2	16.8	33.0	200.1	630.3	722.9	1 337.5	39.0	23.6	472.2
3011	Tires and inner tubes	-	5	3	5.2	83.3	4.2	8.2	65.6	208.5	280.7	470.5	7.7	(NA)	(NA)
3079	Miscellaneous plastics products	-	287	129	12.4	152.3	9.4	18.5	98.1	333.2	348.5	682.3	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	381	145	16.8	220.2	13.1	25.9	157.3	488.4	436.9	928.5	30.7	19.6	376.2
3272	Concrete products, n.e.c.	E2	61	22	1.1	13.7	0.9	1.7	9.2	27.7	18.0	46.1	1.3	(NA)	(NA)
3317	Steel pipe and tubes	-	10	8	1.5	20.9	1.1	2.2	15.1	26.4	28.3	56.0	1.2	(NA)	(NA)
339	Miscellaneous primary metal products	-	35	15	1.1	17.4	0.8	1.6	11.1	50.5	40.7	90.0	2.9	(NA)	(NA)
3398	Metal heat treating	-	19	9	0.5	6.0	0.4	0.7	4.0	11.3	3.8	15.1	(D)	(NA)	(NA)
3399	Primary metal products, n.e.c.	-	16	6	0.7	11.3	0.5	0.9	7.1	39.2	36.9	74.9	(D)	(NA)	(NA)
341	Metal cans and shipping containers	-	18	16	3.1	49.0	2.7	5.3	41.0	134.9	205.6	335.6	3.7	(NA)	(NA)
3411	Metal cans	-	13	12	2.6	42.7	2.3	4.6	36.6	119.8	180.7	296.1	(D)	(NA)	(NA)
3412	Metal barrels, drums, and pails	-	5	4	0.5	6.3	0.4	0.7	4.4	15.1	24.9	39.5	(D)	(NA)	(NA)
3433	Heating equipment, except electric	-	17	7	0.9	11.1	0.5	1.0	5.6	21.6	24.9	46.6	1.0	(NA)	(NA)
3444	Sheet metal work	-	122	35	3.3	38.4	2.4	4.5	25.1	68.8	80.8	148.7	3.7	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers	-	26	17	3.0	40.4	2.4	4.9	31.2	90.3	59.0	147.9	(D)	(NA)	(NA)
3495	Wire springs	-	9	6	0.5	5.2	0.4	0.8	3.8	8.5	9.9	18.3	0.7	(NA)	(NA)
35	Machinery, except electrical	-	1 294	333	51.4	751.3	32.3	68.7	419.1	1 355.6	1 127.3	2 463.7	(D)	51.7	1 015.9
3535	Conveyors and conveying equipment	-	19	10	1.5	22.2	0.9	1.6	10.6	48.3	35.3	81.5	0.7	(NA)	(NA)
354	Metalworking machinery	E1	279	49	4.7	75.4	3.6	7.7	54.3	130.5	59.2	187.2	(D)	(NA)	(NA)
3542	Machine tools, metal forming types	-	12	4	0.6	10.5	0.4	0.9	6.4	22.1	15.0	36.4	1.2	(NA)	(NA)
3551	Food products machinery	-	16	7	0.5	7.3	0.3	0.6	3.5	13.9	9.8	24.0	0.3	(NA)	(NA)
3554	Paper industries machinery	-	15	7	1.3	20.5	0.7	1.5	10.7	35.2	24.1	58.7	1.4	(NA)	(NA)
3585	Refrigeration and heating equipment	-	33	18	4.1	45.4	2.9	9.5	29.0	91.6	99.0	188.0	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	494	68	5.5	72.1	4.4	8.6	50.2	129.5	71.5	199.2	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	475	199	41.2	557.8	29.2	55.2	340.5	1 076.6	978.7	2 029.3	46.1	55.9	978.4
364	Electric lighting and wiring equipment	-	97	45	7.6	80.8	5.6	10.3	47.7	184.5	207.3	383.5	(D)	(NA)	(NA)
3644	Noncurrent-carrying wiring devices	E1	10	7	0.8	10.7	0.7	1.2	6.9	24.0	30.8	53.7	0.6	(NA)	(NA)
3646	Commercial lighting fixtures	-	11	5	1.3	13.1	1.0	1.7	8.4	32.9	69.5	101.2	1.5	(NA)	(NA)
3676	Electronic resistors	-	7	4	0.8	7.7	0.7	1.3	5.7	15.3	5.3	21.3	0.7	(NA)	(NA)
3678	Electronic connectors	-	5	3	0.3	2.7	0.2	0.4	1.8	5.9	4.2	10.3	(D)	(NA)	(NA)
3724	Aircraft engines and engine parts	-	8	4	0.4	6.3	0.3	0.6	3.8	11.6	6.8	18.1	0.6	(NA)	(NA)
3991	Brooms and brushes	-	11	5	0.4	4.3	0.2	0.4	1.7	5.3	5.8	10.5	0.1	(NA)	(NA)
	Allentown-Bethlehem-Easton, Pa.-N.J., SMSA	-	1 183	621	106.8	1 430.8	75.8	140.9	853.3	2 731.8	3 105.1	5 828.2	172.8	110.4	1 805.6
20	Food and kindred products	-	77	25	6.2	88.7	4.3	8.2	56.8	305.0	707.1	1 014.7	10.8	6.0	137.4
202	Dairy products	-	15	4	0.7	8.5	0.4	0.9	5.5	13.8	75.7	88.9	0.7	0.9	7.0
205	Bakery products	E1	13	1	0.3	4.3	0.2	0.3	2.3	8.2	7.2	15.4	0.2	0.7	10.3
22	Textile mill products	-	76	51	5.2	48.7	4.5	8.8	36.8	104.0	137.4	241.8	7.6	6.6	102.8
225	Knitting mills	E1	47	34	3.9	36.2	3.3	6.3	26.7	82.8	106.4	189.5	7.1	4.5	68.0
228	Yarn and thread mills	-	5	4	0.5	3.7	0.4	0.9	3.0	5.0	10.4	15.7	(D)	0.6	4.8
23	Apparel and other textile products	-	345	262	24.3	163.9	22.0	36.4	135.6	253.5	154.0	404.6	6.1	24.2	186.2
232	Men's and boys' furnishings	-	24	15	1.9	13.5	1.8	3.0	11.5	17.4	6.1	24.3	(D)	2.9	22.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Allentown-Bethlehem-Easton, Pa.-N.J., SMSA—Con.														
23	Apparel and other textile products—Con.														
232	Men's and boys' furnishings—Con.														
2321	Men's and boys' shirts and nightwear	E1	11	6	0.5	3.7	0.5	0.8	3.1	4.8	2.5	8.1	(D)	1.2	10.8
2327	Men's and boys' separate trousers	–	8	7	1.2	8.5	1.1	1.9	7.7	11.3	2.4	13.7	(D)	0.8	5.6
2331	Women's and misses' blouses and waists	–	162	142	10.3	65.0	9.6	15.9	57.3	81.2	26.8	108.4	2.5	8.1	49.6
2335	Women's and misses' dresses	E4	44	25	1.8	10.7	1.7	2.5	9.4	16.4	4.9	21.2	0.4	2.8	18.4
2337	Women's and misses' suits and coats	–	14	9	0.9	6.6	0.8	1.3	4.9	20.3	10.4	30.5	(D)	0.5	3.7
2339	Women's and misses' outerwear, n.e.c.	E1	37	29	2.9	18.7	2.7	4.4	15.9	26.7	9.2	35.9	0.6	2.5	16.4
238	Miscellaneous apparel and accessories	–	7	5	0.8	4.4	0.7	1.2	3.7	13.0	17.7	30.3	(D)	0.7	4.0
239	Miscellaneous fabricated textile products	–	18	8	1.2	10.4	0.9	1.5	6.7	18.5	22.4	39.2	(D)	1.8	19.8
2392	House furnishings, n.e.c.	–	8	5	0.9	7.4	0.7	1.2	4.6	14.1	17.2	29.6	0.1	1.1	12.7
24	Lumber and wood products	E1	27	4	0.4	3.0	0.3	0.5	2.2	7.4	10.7	18.0	1.5	0.4	5.3
25	Furniture and fixtures	–	32	13	0.9	10.5	0.8	1.4	6.6	22.8	13.4	35.4	1.4	1.0	12.7
251	Household furniture	E1	16	6	0.3	2.9	0.3	0.6	2.3	5.6	4.1	9.3	0.2	0.3	3.4
254	Partitions and fixtures	–	7	3	0.3	4.7	0.2	0.4	2.5	12.0	5.5	17.4	(D)	0.3	5.1
26	Paper and allied products	–	21	17	2.0	24.7	1.6	3.1	17.9	65.5	76.2	140.3	3.0	3.0	52.2
264	Miscellaneous converted paper products	–	7	5	0.7	9.7	0.6	1.3	7.1	35.9	35.2	70.9	(D)	(NA)	(NA)
2653	Corrugated and solid fiber boxes	–	6	4	0.4	5.6	0.3	0.5	3.2	8.7	20.0	28.8	1.2	(NA)	(NA)
27	Printing and publishing	E1	109	26	4.1	49.7	2.2	3.9	24.7	114.4	61.9	175.7	3.3	3.9	58.9
2711	Newspapers	–	12	7	1.4	17.8	0.4	0.8	4.9	39.1	16.2	55.3	1.1	1.5	25.8
273	Books	E6	6	3	0.3	3.2	0.2	0.4	2.2	6.7	2.7	9.4	0.3	(NA)	(NA)
275	Commercial printing	E1	69	11	1.4	18.9	1.1	2.0	14.7	30.6	14.7	45.2	1.0	1.8	23.8
2752	Commercial printing, lithographic	E1	33	10	1.2	16.8	1.0	1.8	12.9	26.6	12.5	39.0	1.0	1.3	16.7
28	Chemicals and allied products	–	41	18	3.3	50.1	2.1	4.6	28.5	152.4	148.0	310.4	26.2	3.3	87.5
281	Industrial inorganic chemicals	–	11	7	1.8	26.2	1.1	2.2	14.6	93.3	75.1	165.9	(D)	2.0	63.9
30	Rubber and miscellaneous plastics products	–	30	20	2.7	30.3	2.2	4.1	21.9	82.2	103.4	186.5	8.7	2.8	55.8
32	Stone, clay, and glass products	–	68	29	2.8	39.7	2.3	4.3	29.8	85.1	80.0	165.6	8.2	3.0	75.2
3241	Cement, hydraulic	–	8	8	1.5	24.8	1.2	2.3	19.3	48.9	47.5	97.8	1.6	1.8	56.3
327	Concrete, gypsum, and plaster products	E1	28	9	0.4	4.1	0.3	0.4	2.4	8.7	11.1	19.6	0.8	0.5	8.4
329	Miscellaneous nonmetallic mineral products	–	14	7	0.5	7.4	0.4	0.8	5.4	21.6	19.4	40.4	5.1	0.4	7.8
33	Primary metal industries	–	28	18	15.0	261.0	11.4	20.6	187.7	465.6	476.4	928.8	44.5	17.5	357.2
336	Nonferrous foundries	–	5	4	0.4	4.5	0.4	0.7	3.6	8.1	8.1	16.1	(D)	0.3	3.6
344	Fabricated structural metal products	–	43	13	2.7	37.0	1.9	3.5	24.3	64.9	76.4	143.9	5.1	2.4	31.4
3443	Fabricated plate work (boiler shops)	E1	14	6	1.3	17.3	0.8	1.6	11.1	34.4	27.3	58.3	(D)	0.7	13.0
349	Miscellaneous fabricated metal products	–	15	8	1.1	15.0	0.8	1.6	10.1	32.2	29.9	63.5	0.9	1.2	21.2
3499	Fabricated metal products, n.e.c.	E1	7	3	0.3	3.5	0.2	0.4	2.1	8.8	6.2	14.9	0.3	(NA)	(NA)
35	Machinery, except electrical	–	89	34	6.9	100.2	4.3	8.8	56.5	236.7	218.6	468.6	13.8	5.2	104.8
353	Construction and related machinery	–	9	5	1.2	18.1	0.6	1.1	7.7	52.3	27.6	78.1	(D)	1.1	15.9
354	Metalworking machinery	–	10	4	0.5	7.2	0.4	0.7	4.4	12.6	9.3	22.1	(D)	(NA)	(NA)
355	Special industry machinery	–	12	4	0.4	4.7	0.3	0.5	3.2	16.9	24.4	43.4	(D)	0.7	14.3
356	General industrial machinery	–	20	11	3.4	51.5	2.1	4.3	28.7	115.2	137.0	265.6	(D)	(NA)	(NA)
357	Office and computing machines	–	3	3	0.9	11.7	0.7	1.5	7.9	27.8	10.8	38.4	(D)	(NA)	(NA)
36	Electric and electronic equipment	–	40	21	8.6	126.0	6.9	13.5	92.4	305.4	179.4	479.3	18.5	9.4	204.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Allentown-Bethlehem-Easton, Pa.-N.J., SMSA—Con.														
36	Electric and electronic equipment—Con.														
364	Electric lighting and wiring equipment	–	8	6	1.4	12.9	1.1	2.2	10.0	27.1	20.1	47.3	(D)	2.1	33.2
38	Instruments and related products	–	16	7	1.0	10.6	0.8	1.5	7.4	18.7	6.5	23.0	1.0	0.8	13.0
382	Measuring and controlling devices	–	7	4	0.5	5.0	0.4	0.7	3.7	8.5	2.4	9.3	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	38	14	2.6	28.9	2.0	4.1	20.7	73.7	56.0	127.2	7.5	(NA)	(NA)
--	Administrative and auxiliary	–	35	21	9.7	213.6	–	–	–	–	–	–	–	(NA)	(NA)
	Atlantic City SMSA	–	**211**	**66**	**8.7**	**88.7**	**7.0**	**13.1**	**64.7**	**284.4**	**147.7**	**430.4**	**(D)**	**10.4**	**225.5**
20	Food and kindred products	E1	31	11	1.3	12.6	1.1	2.0	9.1	15.2	28.9	44.5	1.3	1.2	14.1
23	Apparel and other textile products	–	34	17	2.3	19.9	2.1	3.7	16.5	30.8	14.8	44.8	0.2	3.1	31.6
2311	Men's and boys' suits and coats	–	6	5	1.6	15.1	1.4	2.6	12.5	23.9	13.6	36.8	(D)	2.1	25.4
233	Women's and misses' outerwear	E1	15	8	0.5	3.4	0.5	0.7	2.7	4.7	0.6	5.2	(D)	0.5	3.6
30	Rubber and miscellaneous plastics products	E1	10	5	0.9	10.6	0.7	1.4	6.5	23.6	13.6	36.1	1.8	(NA)	(NA)
3079	Miscellaneous plastics products	E1	10	5	0.9	10.6	0.7	1.4	6.5	23.6	13.6	36.1	1.8	(NA)	(NA)
32	Stone, clay, and glass products	–	19	8	1.6	16.3	1.2	2.3	12.2	44.9	12.9	57.7	1.8	1.8	33.2
	Jersey City SMSA	–	**1 857**	**655**	**72.2**	**870.1**	**53.8**	**100.8**	**557.5**	**1 983.4**	**2 733.7**	**4 702.1**	**94.6**	**95.3**	**1 899.2**
20	Food and kindred products	–	102	36	5.7	89.5	3.9	8.2	56.1	276.2	954.1	1 229.4	19.0	8.8	332.9
201	Meat products	–	20	7	0.8	13.6	0.5	1.1	9.3	12.8	134.3	149.0	(D)	1.9	32.0
2013	Sausages and other prepared meats	–	11	7	0.7	13.0	0.5	1.0	8.8	12.7	128.3	142.0	(D)	1.5	19.9
205	Bakery products	–	24	8	1.1	13.4	0.6	1.3	6.3	32.0	38.6	70.5	(D)	1.1	19.3
207	Fats and oils	–	8	6	0.7	11.2	0.5	1.1	8.4	53.4	130.7	187.0	(D)	0.7	22.8
209	Miscellaneous foods and kindred products	–	14	5	2.2	36.5	1.4	3.1	22.1	95.7	514.1	604.7	(D)	3.3	202.4
22	Textile mill products	E3	142	54	4.1	36.3	3.6	7.2	28.4	62.4	61.5	122.7	(D)	4.8	65.5
225	Knitting mills	E3	80	33	2.7	22.6	2.4	4.7	17.8	38.4	35.7	73.3	(D)	3.1	42.8
2257	Circular knit fabric mills	E4	15	4	0.7	5.6	0.5	1.1	3.9	10.7	13.0	23.5	2.2	0.7	12.3
226	Textile finishing, except wool	E3	16	9	0.5	6.4	0.5	1.0	5.2	11.0	8.3	19.2	(D)	1.0	13.6
2262	Finishing plants, synthetics	E1	8	6	0.3	3.9	0.3	0.6	3.1	6.4	3.2	9.6	(D)	(NA)	(NA)
229	Miscellaneous textile goods	E5	36	8	0.6	5.0	0.5	1.1	3.7	9.9	10.1	19.7	(D)	0.4	5.5
23	Apparel and other textile products	E2	789	246	17.4	144.2	15.0	26.3	104.2	272.1	351.5	619.9	(D)	19.8	246.4
233	Women's and misses' outerwear	E2	334	154	9.6	73.4	8.4	14.1	53.9	149.5	172.5	320.6	(D)	9.6	98.9
2331	Women's and misses' blouses and waists	–	33	15	0.9	7.9	0.8	1.3	5.2	20.5	36.4	56.2	(D)	0.5	6.7
2335	Women's and misses' dresses	E2	173	43	2.9	22.8	2.5	4.2	15.6	43.5	60.4	103.1	(D)	2.9	36.0
2337	Women's and misses' suits and coats	E3	96	78	4.5	33.1	4.1	6.8	26.7	60.9	51.6	112.8	(D)	4.8	38.6
2339	Women's and misses' outerwear, n.e.c.	E1	32	18	1.2	9.5	1.0	1.7	6.4	24.6	24.1	48.5	(D)	1.3	17.6
234	Women's and children's undergarments	–	18	12	1.5	13.2	1.0	1.7	6.0	23.1	55.9	77.9	(D)	2.0	25.9
236	Children's outerwear	E1	29	18	1.1	9.3	1.0	1.6	6.5	18.7	27.1	45.1	(D)	1.5	20.2
239	Miscellaneous fabricated textile products	E2	370	48	4.4	41.9	3.9	7.6	32.9	72.1	87.7	159.2	(D)	4.6	62.6
2392	House furnishings, n.e.c.	–	23	15	1.4	11.7	1.3	2.5	9.6	18.3	39.5	57.7	(D)	1.3	16.7
2395	Pleating and stitching	E3	86	9	0.8	6.3	0.7	1.2	4.6	11.2	13.1	24.2	(D)	(NA)	(NA)
25	Furniture and fixtures	–	34	9	1.5	18.3	1.1	3.2	13.8	24.7	27.8	51.4	(D)	1.4	17.3
251	Household furniture	E2	20	4	0.4	2.9	0.4	0.7	2.0	5.6	7.6	13.1	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Jersey City SMSA—Con.														
26	Paper and allied products	E1	47	31	2.7	34.9	2.0	3.9	22.6	57.6	73.1	130.8	4.9	3.7	52.3
2649	Converted paper products, n.e.c.	–	7	6	0.4	4.2	0.3	0.6	3.0	8.4	7.4	15.7	(D)	(NA)	(NA)
265	Paperboard containers and boxes	E1	30	19	1.7	23.9	1.3	2.4	14.8	37.4	51.8	89.0	3.6	2.4	38.0
2653	Corrugated and solid fiber boxes	E1	19	12	1.3	19.0	0.9	1.8	11.3	28.4	44.8	73.1	3.2	1.6	25.4
275	Commercial printing	E1	67	14	1.1	16.3	0.9	1.5	11.7	27.6	26.1	53.7	1.2	2.5	42.4
278	Blankbooks and bookbinding	–	9	5	0.5	4.8	0.4	0.8	3.3	8.2	1.9	10.0	(D)	(NA)	(NA)
28	Chemicals and allied products	–	97	53	6.9	105.9	4.2	8.2	57.6	463.1	538.6	997.8	27.6	7.6	347.3
281	Industrial inorganic chemicals	–	5	4	0.3	4.2	0.2	0.3	2.5	30.7	54.3	84.9	1.9	(NA)	(NA)
282	Plastics materials and synthetics	–	7	6	0.6	9.6	0.4	0.9	5.8	32.3	64.0	97.0	3.9	(NA)	(NA)
2821	Plastics materials and resins	–	7	6	0.6	9.6	0.4	0.9	5.8	32.3	64.0	97.0	3.9	0.3	6.3
284	Soaps, cleaners, and toilet goods	–	27	10	3.3	50.9	1.9	3.6	28.5	273.0	223.5	498.4	11.1	3.8	243.1
2851	Paints and allied products	–	15	8	0.9	11.0	0.6	1.0	4.6	34.5	31.8	63.0	(D)	0.8	15.4
286	Industrial organic chemicals	–	13	11	1.1	18.3	0.7	1.4	10.5	57.3	122.0	176.9	7.9	1.4	42.1
2865	Cyclic crudes and intermediates	–	7	6	0.6	10.6	0.4	0.7	5.6	24.6	72.2	96.7	3.2	0.5	15.7
2869	Industrial organic chemicals, n.e.c.	–	6	5	0.5	7.7	0.3	0.7	4.9	32.6	49.8	80.2	4.7	0.9	26.4
289	Miscellaneous chemical products	–	20	9	0.5	7.5	0.3	0.6	3.7	18.5	26.5	45.5	0.8	0.6	18.3
2899	Chemical preparations, n.e.c.	–	11	6	0.3	4.8	0.2	0.4	2.5	13.6	19.0	33.0	(D)	0.4	14.6
29	Petroleum and coal products	–	10	7	0.4	5.5	0.3	0.6	3.5	11.6	32.5	45.7	1.4	(NA)	(NA)
295	Paving and roofing materials	–	6	5	0.3	3.8	0.2	0.5	3.1	8.3	26.7	36.5	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E2	44	26	2.1	21.8	1.7	3.3	14.1	45.5	53.6	98.5	2.9	1.3	18.8
3079	Miscellaneous plastics products	E2	38	23	2.0	20.3	1.6	3.0	13.2	42.4	48.4	90.1	(D)	1.2	17.0
31	Leather and leather products	–	18	12	2.7	19.0	2.4	3.8	13.7	42.7	53.9	94.6	1.6	2.5	25.7
317	Handbags and other personal leather goods	–	10	6	2.1	13.7	1.8	2.9	10.0	29.3	22.1	51.3	(D)	1.9	19.1
32	Stone, clay, and glass products	–	32	10	2.2	28.9	1.9	3.7	23.5	68.9	58.9	128.1	2.4	2.3	48.6
329	Miscellaneous nonmetallic mineral products	–	11	2	0.3	3.8	0.2	0.4	2.3	8.1	6.5	14.6	0.3	(NA)	(NA)
33	Primary metal industries	–	32	14	1.5	24.1	1.1	2.3	13.6	54.0	75.6	128.0	2.3	3.4	71.0
335	Nonferrous rolling and drawing	–	8	4	0.8	14.6	0.5	1.1	7.0	33.9	42.2	75.5	1.3	2.5	55.4
336	Nonferrous foundries	–	11	4	0.3	3.4	0.2	0.5	2.7	7.3	5.4	12.1	(D)	(NA)	(NA)
34	Fabricated metal products	E1	96	31	2.1	29.9	1.7	3.6	22.0	57.0	87.4	144.2	1.9	3.8	66.9
344	Fabricated structural metal products	E3	37	9	0.5	5.9	0.4	0.7	3.9	10.6	19.5	29.7	0.3	0.6	10.4
349	Miscellaneous fabricated metal products	E1	23	7	0.5	6.6	0.4	0.8	4.5	11.3	11.5	24.4	0.6	0.8	10.8
3498	Fabricated pipe and fittings	–	4	3	0.3	3.8	0.2	0.4	2.6	6.1	7.3	14.9	(D)	(NA)	(NA)
35	Machinery, except electrical	–	96	22	3.2	48.4	1.9	3.8	25.2	89.4	52.0	139.6	2.6	4.5	97.4
355	Special industry machinery	E2	19	6	0.4	5.9	0.3	0.5	3.4	9.0	9.0	18.5	(D)	0.5	8.5
356	General industrial machinery	–	17	6	1.3	20.1	0.8	1.6	11.5	46.6	24.3	68.9	1.7	1.1	20.1
36	Electric and electronic equipment	–	53	25	9.7	150.1	7.4	13.3	103.2	316.2	196.3	509.3	9.1	17.2	322.2
364	Electric lighting and wiring equipment	–	12	4	1.4	14.8	1.2	2.0	11.5	39.4	24.1	63.3	0.4	(NA)	(NA)
3662	Radio and TV communication equipment	E3	7	4	0.3	2.7	0.2	0.3	1.5	4.6	2.2	6.8	(D)	1.0	9.7
38	Instruments and related products	–	15	7	1.2	5.7	0.7	0.6	3.0	14.6	10.0	25.5	0.2	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	76	23	2.7	25.4	2.1	3.6	15.0	39.2	45.4	84.2	(D)	4.3	53.4

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Jersey City SMSA—Con.														
39	Miscellaneous manufacturing industries—Con.														
394	Toys and sporting goods	–	13	5	0.6	5.2	0.5	1.0	4.0	10.4	15.3	25.2	0.4	1.3	16.3
395	Pens, pencils, office and art supplies	E1	10	4	0.5	4.6	0.3	0.5	2.5	7.5	6.1	13.9	0.3	(NA)	(NA)
396	Costume jewelry and notions	–	9	4	0.8	7.7	0.6	0.9	4.0	5.5	8.5	13.7	0.2	(NA)	(NA)
399	Miscellaneous manufactures	–	36	9	0.7	6.5	0.5	1.0	3.8	13.7	12.8	26.4	(D)	1.1	14.4
	Long Branch-Asbury Park SMSA	–	616	181	26.6	351.8	15.9	31.0	155.6	755.3	719.6	1 471.9	29.5	26.1	465.8
20	Food and kindred products	–	29	13	1.6	19.3	1.2	2.5	12.3	143.8	246.4	396.5	2.6	1.3	79.0
205	Bakery products	–	9	3	0.3	2.9	0.2	0.3	1.6	4.9	3.3	8.3	0.2	(NA)	(NA)
2051	Bread, cake, and related products	–	9	3	0.3	2.9	0.2	0.3	1.6	4.9	3.3	8.3	0.2	(NA)	(NA)
23	Apparel and other textile products	E1	68	41	2.3	15.1	2.0	3.5	11.9	23.0	15.3	38.1	0.3	3.0	21.1
233	Women's and misses' outerwear	E1	33	20	1.1	7.1	1.0	1.8	6.1	10.0	3.5	13.5	(D)	(NA)	(NA)
2335	Women's and misses' dresses	E3	12	8	0.4	2.6	0.4	0.7	2.2	3.3	0.5	3.7	(D)	0.6	3.5
2337	Women's and misses' suits and coats	E1	13	9	0.4	2.7	0.4	0.6	2.2	4.1	2.4	6.5	(D)	0.6	4.2
2339	Women's and misses' outerwear, n.e.c.	–	8	3	0.3	1.9	0.2	0.4	1.6	2.6	0.7	3.3	(D)	(NA)	(NA)
236	Children's outerwear	E1	10	10	0.6	3.2	0.5	0.9	2.9	4.2	3.0	7.1	(D)	0.8	4.6
26	Paper and allied products	–	13	6	1.2	13.4	1.0	1.8	9.4	35.3	27.5	63.3	1.6	(NA)	(NA)
27	Printing and publishing	E1	83	8	1.6	14.1	0.6	0.9	5.3	27.0	13.9	40.9	1.6	1.2	18.0
2711	Newspapers	–	15	3	1.2	9.8	0.2	0.4	2.5	18.5	8.5	27.1	1.0	0.8	11.5
28	Chemicals and allied products	–	21	7	1.8	27.3	1.2	2.6	15.0	152.2	100.3	248.4	7.3	1.6	97.0
30	Rubber and miscellaneous plastics products	–	37	21	1.8	18.1	1.5	2.8	13.3	41.3	35.1	75.5	1.8	1.6	22.0
32	Stone, clay, and glass products	–	20	6	1.9	23.7	1.6	3.2	20.4	53.7	54.7	109.7	2.2	2.0	43.0
33	Primary metal industries	E1	13	5	0.5	5.5	0.4	0.7	3.4	12.6	17.0	28.9	0.5	0.4	6.3
335	Nonferrous rolling and drawing	E1	4	3	0.3	3.2	0.2	0.4	2.1	6.1	6.6	12.2	(D)	(NA)	(NA)
34	Fabricated metal products	E1	52	6	1.0	10.8	0.8	1.5	6.7	24.7	24.0	48.1	(D)	1.0	17.7
35	Machinery, except electrical	–	75	10	2.6	35.1	1.6	3.2	18.6	73.5	42.2	110.9	4.5	2.0	42.2
36	Electric and electronic equipment	E1	76	24	2.8	31.1	1.9	3.6	15.4	75.5	52.9	126.7	2.1	3.3	56.3
364	Electric lighting and wiring equipment	E1	8	2	0.3	2.9	0.2	0.5	2.1	5.9	4.1	10.2	(D)	(NA)	(NA)
366	Communication equipment	–	14	8	1.0	11.8	0.6	1.0	4.2	24.4	14.4	37.7	0.4	1.2	10.9
367	Electronic components and accessories	E1	32	12	1.3	14.4	0.9	1.8	8.0	41.0	30.3	70.6	1.4	0.9	26.0
3679	Electronic components, n.e.c.	–	25	11	1.1	12.8	0.8	1.6	7.2	37.9	28.8	66.5	1.1	(NA)	(NA)
38	Instruments and related products	–	21	9	1.2	14.8	0.8	1.8	9.4	37.9	25.2	65.5	0.8	1.0	17.6
382	Measuring and controlling devices	–	9	4	0.5	6.0	0.3	0.7	2.9	11.8	8.2	19.9	0.3	(NA)	(NA)
	New Brunswick-Perth Amboy-Sayreville SMSA	–	1 147	540	80.5	1 174.7	49.7	97.9	602.3	2 945.2	3 986.3	6 864.2	164.7	80.5	2 021.7
20	Food and kindred products	–	46	25	3.5	45.9	2.6	5.2	31.7	161.4	241.4	405.1	15.7	3.1	98.1
201	Meat products	–	5	3	0.3	2.7	0.3	0.5	2.0	5.9	28.7	34.6	0.3	(NA)	(NA)
202	Dairy products	E4	9	5	0.5	7.2	0.3	0.6	3.5	11.7	31.3	43.2	0.4	0.6	11.9
2024	Ice cream and frozen desserts	E3	5	3	0.3	4.3	0.2	0.4	2.7	6.1	15.8	22.2	(D)	(NA)	(NA)
208	Beverages	–	9	4	0.5	6.0	0.3	0.6	3.4	48.5	67.7	117.0	1.1	0.3	14.5
22	Textile mill products	E1	18	3	0.5	6.2	0.5	0.9	5.0	12.3	26.5	38.6	0.3	1.2	22.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New Brunswick-Perth Amboy-Sayreville SMSA—Con.														
236	Children's outerwear	E1	9	5	0.4	2.4	0.3	0.6	1.8	5.7	4.5	10.2	(D)	0.6	4.3
238	Miscellaneous apparel and accessories	-	7	4	0.6	3.4	0.5	0.9	2.7	5.8	4.5	10.3	(D)	(NA)	(NA)
24	Lumber and wood products	E3	27	4	0.3	3.5	0.3	0.5	2.4	7.1	6.3	13.2	0.2	0.4	6.4
25	Furniture and fixtures	E1	23	8	0.5	5.4	0.4	0.7	3.7	9.9	8.5	18.3	(D)	0.4	6.5
26	Paper and allied products	-	41	31	5.3	81.6	3.4	6.9	44.8	183.0	214.4	392.4	16.4	5.5	101.1
264	Miscellaneous converted paper products	-	22	14	3.4	52.7	1.9	3.8	24.7	126.7	126.4	247.4	10.0	3.5	60.6
2643	Bags, except textile bags	E1	5	4	0.3	3.1	0.2	0.4	2.1	8.7	10.0	18.5	0.4	0.4	4.2
2653	Corrugated and solid fiber boxes	-	9	8	0.7	9.6	0.5	1.1	6.2	19.4	34.0	53.3	2.0	(NA)	(NA)
2655	Fiber cans, drums, and similar products	-	4	4	0.4	4.6	0.3	0.6	3.7	10.1	16.3	26.1	0.9	(NA)	(NA)
27	Printing and publishing	-	124	27	2.9	38.5	1.4	2.6	16.4	93.1	44.4	136.9	4.8	1.9	52.4
2711	Newspapers	-	10	4	1.1	16.4	0.3	0.5	3.1	43.7	9.3	53.0	(D)	1.0	33.2
273	Books	-	8	3	0.4	3.1	0.1	0.1	0.4	7.4	3.0	10.3	0.1	(NA)	(NA)
275	Commercial printing	-	67	12	1.0	14.0	0.7	1.4	10.3	30.0	23.0	52.6	3.3	0.5	8.2
2752	Commercial printing, lithographic	-	24	6	0.5	8.7	0.4	0.8	6.5	18.6	16.5	34.9	2.0	(NA)	(NA)
28	Chemicals and allied products	-	108	72	15.1	235.9	10.1	20.7	136.0	1 005.0	955.5	1 923.3	50.7	15.3	670.0
281	Industrial inorganic chemicals	-	16	7	1.0	12.9	0.7	1.4	8.0	46.8	57.3	99.9	4.1	1.9	63.6
2819	Industrial inorganic chemicals, n.e.c.	-	6	4	0.5	7.0	0.3	0.8	4.7	29.6	39.2	68.6	3.2	(NA)	(NA)
282	Plastics materials and synthetics	-	11	10	0.9	13.5	0.7	1.5	9.1	36.4	114.1	149.6	2.5	0.8	25.7
284	Soaps, cleaners, and toilet goods	-	22	16	5.9	84.7	3.8	7.6	46.2	477.8	219.8	691.6	10.0	4.2	254.8
2844	Toilet preparations	-	13	10	5.3	75.8	3.4	6.6	39.9	361.5	163.1	518.9	9.2	3.6	182.7
2851	Paints and allied products	-	13	8	1.1	17.1	0.6	1.2	9.0	83.9	75.3	158.6	3.9	1.6	61.2
286	Industrial organic chemicals	-	14	12	2.0	35.2	1.2	2.5	19.5	82.8	278.0	357.4	6.9	1.7	53.5
29	Petroleum and coal products	-	14	8	1.3	23.5	1.0	2.1	16.8	174.6	616.1	788.3	(D)	1.3	85.5
30	Rubber and miscellaneous plastics products	-	83	53	4.6	52.6	3.8	7.4	36.7	128.8	141.3	268.2	12.0	3.8	72.5
3079	Miscellaneous plastics products	-	70	43	3.8	43.8	3.1	6.3	31.0	108.8	123.5	230.5	10.8	3.1	59.7
31	Leather and leather products	E2	8	6	0.5	3.8	0.4	0.8	2.8	6.6	4.4	10.8	0.1	0.8	8.0
32	Stone, clay, and glass products	-	46	20	2.1	30.1	1.6	3.3	20.7	63.9	76.2	139.9	3.3	2.4	51.5
329	Miscellaneous nonmetallic mineral products	-	15	10	1.1	15.7	0.8	1.6	10.1	36.1	49.2	85.5	2.6	1.1	24.2
33	Primary metal industries	-	36	21	3.7	57.3	2.9	6.0	42.3	162.7	346.6	504.1	5.3	7.9	142.8
331	Blast furnace and basic steel products	-	6	5	0.6	8.9	0.5	1.1	6.4	19.1	40.0	56.9	0.6	0.3	5.4
335	Nonferrous rolling and drawing	-	11	10	1.4	19.7	1.1	2.2	14.4	59.5	146.7	204.3	1.4	2.9	64.1
3357	Nonferrous wire drawing and insulating	-	6	6	0.9	12.9	0.7	1.5	10.0	39.9	71.5	109.4	1.0	1.4	37.9
336	Nonferrous foundries	-	6	2	0.3	2.8	0.2	0.4	2.2	4.9	4.9	9.8	0.3	(NA)	(NA)
34	Fabricated metal products	-	103	54	5.3	80.8	4.0	8.2	55.7	202.3	264.9	466.1	10.5	5.3	123.9
341	Metal cans and shipping containers	-	14	12	2.0	36.4	1.6	3.5	28.1	107.6	141.1	248.4	4.6	1.4	41.3
344	Fabricated structural metal products	-	37	18	1.5	20.7	1.0	2.1	13.7	41.2	84.4	125.7	2.3	1.8	39.6
3441	Fabricated structural metal	-	8	3	0.3	4.9	0.2	0.4	2.5	7.6	10.7	18.2	0.2	0.7	15.0
3443	Fabricated plate work (boiler shops)	E2	9	5	0.5	6.1	0.3	0.7	4.6	12.9	13.0	25.2	1.2	0.3	4.5
3444	Sheet metal work	-	13	7	0.6	8.4	0.4	0.8	5.7	18.5	57.4	77.0	0.9	0.5	15.4
346	Metal forgings and stampings	E2	11	5	0.3	3.7	0.2	0.4	2.5	5.5	4.5	9.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New Brunswick-Perth Amboy-Sayreville SMSA—Con.													
34	Fabricated metal products—Con.													
349	Miscellaneous fabricated metal products	–	23	13	1.3	17.5	0.9	1.9	9.7	41.5	29.9	70.6	3.1	1.0	23.3
3496	Miscellaneous fabricated wire products	–	9	6	0.6	8.5	0.5	0.9	4.3	19.0	13.7	32.2	(D)	0.3	3.7
35	Machinery, except electrical	–	152	39	6.4	81.8	4.1	7.8	46.5	139.0	205.9	362.6	6.5	5.2	135.7
354	Metalworking machinery	–	30	5	0.5	7.4	0.3	0.7	4.8	16.2	9.2	23.8	1.0	(NA)	(NA)
355	Special industry machinery	–	19	8	0.8	12.2	0.5	1.0	6.9	20.4	15.9	35.9	0.3	0.5	10.0
356	General industrial machinery	–	22	13	1.2	17.1	0.7	1.4	8.8	35.5	24.7	59.7	0.9	0.7	13.9
357	Office and computing machines	–	5	4	0.8	11.2	0.5	0.9	5.2	17.4	32.6	51.9	(D)	(NA)	(NA)
358	Refrigeration and service machinery	–	6	5	2.6	26.2	1.7	3.0	15.7	35.2	111.2	164.8	1.8	(NA)	(NA)
36	Electric and electronic equipment	–	52	20	3.1	43.3	2.3	4.6	29.7	87.8	65.0	147.4	5.4	2.9	47.6
367	Electronic components and accessories	–	27	11	1.0	11.4	0.8	1.5	6.5	22.7	15.6	38.5	1.3	0.7	11.6
38	Instruments and related products	–	30	16	3.9	66.6	2.3	4.4	33.5	229.4	168.8	400.5	7.4	(NA)	(NA)
3811	Engineering and scientific instruments	E1	5	3	0.3	3.5	0.2	0.4	2.4	7.2	4.1	10.7	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	54	20	3.3	32.4	2.5	4.9	16.2	104.2	106.2	200.3	5.1	2.2	49.7
3944	Games, toys, and children's vehicles	–	8	3	1.0	9.7	0.8	1.9	5.3	20.0	29.4	48.6	0.3	(NA)	(NA)
	New York, N.Y.-N.J., SMSA	–	25 831	8 040	796.6	10 313.0	489.0	909.7	4 519.2	19 878.3	21 494.9	41 187.9	862.5	949.2	15 120.8
20	Food and kindred products	–	891	289	34.1	479.3	23.1	46.7	286.3	1 528.8	2 537.9	4 071.5	89.5	47.9	1 287.2
201	Meat products	E1	118	42	3.6	58.4	2.9	6.2	44.2	129.0	331.1	460.6	12.6	4.9	95.0
2011	Meat packing plants	E7	27	4	0.3	4.0	0.2	0.5	3.1	7.2	34.6	41.7	(D)	0.3	7.3
2013	Sausages and other prepared meats	E1	85	37	3.2	52.7	2.5	5.3	39.6	117.5	283.6	402.2	10.8	4.3	82.2
202	Dairy products	–	78	28	3.0	49.0	1.7	3.7	28.0	118.3	363.0	479.9	4.1	4.4	129.8
2024	Ice cream and frozen desserts	–	30	9	0.9	15.1	0.5	1.1	8.7	37.9	64.0	101.9	2.0	1.4	43.0
2026	Fluid milk	–	30	14	1.8	31.0	1.0	2.2	17.5	76.2	261.5	336.5	1.8	2.8	79.9
203	Preserved fruits and vegetables	E2	87	38	2.8	31.0	2.0	4.1	18.8	96.0	113.1	209.0	3.5	2.4	53.4
2033	Canned fruits and vegetables	E7	21	8	0.4	3.8	0.3	0.6	2.7	13.3	17.5	30.9	0.6	0.4	8.4
2034	Dehydrated fruits, vegetables, and soups	–	6	5	0.5	4.3	0.3	0.7	3.1	11.7	11.6	23.2	0.6	(NA)	(NA)
2035	Pickles, sauces, and salad dressings	E1	27	13	0.8	9.6	0.6	1.0	5.1	30.6	38.0	68.5	0.9	0.9	22.9
2038	Frozen specialties	–	21	10	1.0	12.2	0.7	1.5	7.1	36.6	40.5	77.1	1.2	0.8	12.5
204	Grain mill products	–	13	8	0.7	12.8	0.5	1.1	7.1	38.6	54.5	92.5	(D)	0.5	14.8
2045	Blended and prepared flour	–	5	4	0.5	10.7	0.3	0.8	5.7	31.5	43.7	74.7	(D)	(NA)	(NA)
205	Bakery products	E1	248	56	9.3	125.5	6.1	11.7	70.7	326.9	218.4	545.0	7.3	11.9	230.0
206	Sugar and confectionery products	–	60	24	5.1	65.8	3.9	7.5	45.4	281.6	394.9	676.1	31.0	5.6	176.2
2065	Confectionery products	E1	47	17	2.1	21.0	1.7	3.4	14.5	88.2	63.6	151.5	3.7	(NA)	(NA)
207	Fats and oils	–	12	3	0.3	5.8	0.2	0.4	3.6	25.3	104.9	132.3	(D)	1.1	40.2
208	Beverages	–	107	34	4.5	70.3	2.3	4.8	32.2	287.6	365.7	653.6	13.2	11.1	390.7
2086	Bottled and canned soft drinks	–	58	18	3.1	47.7	1.5	3.0	21.1	151.7	236.8	388.4	9.5	4.3	108.0
2087	Flavoring extracts and sirups, n.e.c.	–	33	13	1.0	15.2	0.5	1.2	7.1	114.4	93.3	208.1	2.5	1.3	82.1
209	Miscellaneous foods and kindred products	–	168	56	4.7	60.7	3.4	7.2	36.4	225.4	592.4	822.5	12.9	5.9	157.2
2091	Canned and cured seafoods	–	18	9	0.5	5.7	0.3	0.7	3.5	18.4	32.6	51.2	0.4	(NA)	(NA)
2098	Macaroni and spaghetti	–	34	9	1.0	11.1	0.8	1.9	8.2	37.0	40.8	77.8	1.0	(NA)	(NA)
2099	Food preparations, n.e.c.	–	75	21	1.9	25.5	1.4	2.9	14.5	62.5	105.3	168.8	9.8	2.9	73.4
2251	Women's hosiery, except socks	E0	7	3	0.4	2.5	0.3	0.6	2.0	4.8	5.0	9.8	(D)	(NA)	(NA)
2253	Knit outerwear mills	E2	440	236	15.5	131.4	13.4	24.8	96.1	232.7	328.9	556.4	(D)	18.5	225.4

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York, N.Y.-N.J., SMSA—Con.														
2257	Circular knit fabric mills	–	132	50	4.9	49.6	4.0	8.0	36.8	106.1	297.3	404.8	6.7	8.3	162.9
2258	Warp knit fabric mills	–	50	23	2.4	24.5	2.1	4.4	16.8	43.5	102.7	147.0	(D)	1.8	35.8
2259	Knitting mills, n.e.c.	E3	64	18	1.3	10.3	1.2	2.3	8.0	13.4	23.6	36.8	(D)	(NA)	(NA)
2262	Finishing plants, synthetics	E1	40	23	1.6	19.0	1.4	3.1	14.5	33.4	40.8	76.0	3.8	2.4	29.4
2269	Finishing plants, n.e.c.	–	23	9	1.0	11.3	0.9	1.8	8.3	24.6	25.3	48.3	(D)	2.2	30.5
2295	Coated fabrics, not rubberized	E2	17	10	0.5	5.2	0.3	0.6	2.9	11.0	15.1	25.7	0.6	1.2	24.0
2299	Textile goods, n.e.c.	E5	92	22	1.3	10.9	1.1	2.2	8.0	21.1	26.8	47.4	1.7	(NA)	(NA)
23	Apparel and other textile products	E2	7 374	2 841	192.1	1 589.9	157.6	274.3	1 052.6	3 609.0	5 066.0	8 599.8	72.1	219.4	2 883.9
232	Men's and boys' furnishings	E1	442	182	18.9	147.4	14.5	25.9	91.8	353.6	606.8	931.3	12.2	16.9	257.6
2321	Men's and boys' shirts and nightwear	E1	135	59	4.7	40.0	3.7	6.8	20.7	139.9	320.7	428.6	1.2	4.7	77.2
2327	Men's and boys' separate trousers	E1	95	31	7.5	52.5	5.2	8.8	34.3	108.5	158.4	269.1	3.5	(NA)	(NA)
2328	Men's and boys' work clothing	E3	26	15	0.7	4.7	0.6	1.0	3.5	9.6	12.2	22.0	0.2	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c.	E1	93	40	3.5	26.5	3.0	5.8	18.2	49.1	68.0	118.7	5.6	(NA)	(NA)
233	Women's and misses' outerwear	E2	3 793	1 674	99.5	807.1	82.0	140.5	532.0	1 935.9	2 586.4	4 490.0	36.1	103.7	1 321.4
2331	Women's and misses' blouses and waists	–	333	182	11.3	95.5	9.2	15.6	59.1	318.3	416.4	731.3	5.8	9.4	147.2
2335	Women's and misses' dresses	E3	2 277	875	49.8	380.8	41.5	71.2	258.0	797.7	946.6	1 734.9	16.3	57.5	666.5
2337	Women's and misses' suits and coats	E1	620	326	19.8	180.7	16.1	28.3	118.6	416.5	612.2	1 024.0	5.5	23.3	344.0
2339	Women's and misses' outerwear, n.e.c.	E2	563	291	18.6	150.1	15.1	25.5	96.3	403.4	611.2	999.7	8.4	13.6	163.8
234	Women's and children's undergarments	–	317	156	11.6	95.0	9.0	15.6	51.9	231.8	345.2	573.7	2.3	15.6	239.9
2341	Women's and children's underwear	E1	255	126	8.2	66.2	6.5	11.2	38.4	166.0	252.7	416.0	1.5	9.1	141.9
2342	Brassieres and allied garments	–	62	30	3.4	28.8	2.5	4.4	13.5	65.7	92.5	157.8	0.8	6.5	98.0
235	Hats, caps, and millinery	E3	175	51	3.0	22.6	2.5	4.5	16.1	39.5	43.4	82.5	(D)	3.5	35.2
236	Children's outerwear	E1	301	158	10.2	78.1	8.5	15.0	53.6	172.6	243.1	414.7	2.2	14.7	205.4
2361	Children's dresses and blouses	E1	147	88	5.5	43.2	4.4	7.9	28.5	102.1	140.6	239.7	1.1	6.4	95.8
2363	Children's coats and suits	E1	46	19	1.2	10.1	1.0	1.7	7.0	21.2	34.4	55.0	0.4	2.7	36.4
2369	Children's outerwear, n.e.c.	E2	108	51	3.5	24.8	3.0	5.4	18.1	49.3	68.1	120.0	0.6	5.6	73.2
238	Miscellaneous apparel and accessories	E1	461	190	11.9	96.9	10.2	17.6	65.7	207.2	268.1	469.0	6.2	16.1	205.6
2386	Leather and sheep lined clothing	E1	112	34	2.0	18.0	1.7	3.0	13.3	30.2	55.7	85.0	0.3	2.1	27.4
2387	Apparel belts	E1	139	53	3.2	25.5	2.7	4.5	16.2	48.6	49.1	96.1	0.9	5.0	61.9
239	Miscellaneous fabricated textile products	E2	1 197	318	23.6	206.3	19.7	35.6	140.9	392.1	552.2	944.3	9.7	28.3	335.0
2391	Curtains and draperies	–	147	37	2.7	23.4	2.4	4.2	16.7	53.6	105.2	158.4	0.5	3.5	39.1
2392	House furnishings, n.e.c.	E1	247	81	7.3	56.5	5.9	11.0	36.4	110.7	207.2	316.9	3.0	7.6	102.4
2393	Textile bags	E1	22	5	0.5	4.4	0.4	0.8	2.7	8.6	10.5	19.2	0.1	(NA)	(NA)
2394	Canvas and related products	E2	39	6	0.7	5.2	0.6	0.9	3.7	7.8	7.6	15.5	0.2	(NA)	(NA)
2395	Pleating and stitching	E2	272	74	4.9	41.4	4.2	7.2	28.3	78.3	82.2	159.5	1.9	6.7	71.6
2396	Automotive and apparel trimmings	E3	242	65	3.9	42.9	3.3	6.0	30.3	72.6	79.9	153.5	1.7	5.5	65.0
2397	Schiffli machine embroideries	E1	106	17	1.3	14.6	1.1	2.2	10.1	27.7	25.6	53.4	1.3	1.2	21.3
2399	Fabricated textile products, n.e.c.	E3	122	33	2.2	17.9	1.9	3.2	12.7	32.8	33.9	68.0	1.2	2.3	21.4
242	Sawmills and planing mills	E2	43	8	0.5	4.2	0.4	0.8	3.2	6.2	6.5	12.8	0.3	(NA)	(NA)
2426	Hardwood dimension and flooring	E1	28	5	0.3	2.9	0.3	0.5	2.2	4.6	4.4	9.0	0.1	0.5	4.7
243	Millwork, plywood, and structural members	E2	161	28	2.2	26.4	1.8	3.5	19.2	46.8	48.8	93.9	1.8	2.8	38.8
2431	Millwork	E2	85	14	1.0	13.9	0.9	1.7	9.8	24.9	33.4	56.9	1.2	1.5	21.1
2434	Wood kitchen cabinets	E3	71	13	1.1	12.1	0.9	1.8	9.0	20.9	14.7	35.4	(D)	1.3	15.7
244	Wood containers	E1	22	5	0.3	2.5	0.3	0.5	1.7	3.6	4.5	8.0	0.1	0.7	6.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups end industries with 250 employees or more within SCSA's and SMSA's, except those thet would disclose operetions of individual companies. For definitions of SCSA's end SMSA's, see appendix A. For explenetion of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York, N.Y.-N.J., SMSA—Con.													
249	Miscellaneous wood products	E1	142	17	1.7	17.8	1.4	2.6	10.9	34.7	37.7	72.5	1.6	2.5	30.5
2499	Wood products, n.e.c.	E1	138	17	1.7	17.6	1.4	2.5	10.7	34.3	37.2	71.7	(D)	(NA)	(NA)
25	Furniture and fixtures	E2	729	164	14.2	150.2	11.4	21.7	103.9	274.4	241.1	511.1	11.3	17.1	233.2
251	Household furniture	E3	384	64	5.2	48.0	4.4	8.1	33.5	86.2	91.0	176.1	3.6	7.6	87.7
2511	Wood household furniture	E4	189	28	2.2	18.3	1.9	3.6	14.0	32.2	28.7	60.1	2.1	2.6	28.6
2512	Upholstered household furniture	E5	66	7	0.6	6.2	0.5	1.0	4.6	10.5	7.7	18.1	0.3	1.3	14.8
2514	Metal household furniture	E2	61	16	1.6	14.5	1.2	2.2	9.1	28.1	33.6	61.4	0.8	1.6	21.5
2515	Mattresses and bedsprings	E3	48	10	0.7	7.3	0.5	0.9	4.6	12.0	17.7	29.6	(D)	1.5	16.1
252	Office furniture	E1	38	20	2.6	26.5	2.0	4.0	17.8	53.7	33.3	84.8	4.1	2.5	35.9
2521	Wood office furniture	E1	21	8	0.5	4.7	0.4	0.7	3.8	7.7	5.2	12.9	0.2	(NA)	(NA)
2522	Metal office furniture	E1	17	12	2.1	21.8	1.6	3.3	14.0	46.0	28.1	71.9	3.9	(NA)	(NA)
254	Partitions end fixtures	E1	193	60	4.6	56.7	3.7	7.1	40.3	94.2	76.0	169.2	2.8	5.0	79.0
2541	Wood pertitions and fixtures	E1	104	33	2.4	32.4	1.9	3.7	23.8	48.1	33.3	81.2	0.6	2.8	46.6
2542	Metel partitions and fixtures	E2	89	27	2.2	24.3	1.8	3.4	16.5	46.0	42.7	88.0	2.2	2.1	32.4
259	Miscellaneous furniture and fixtures	E1	106	19	1.6	17.8	1.2	2.3	11.4	38.7	38.8	77.4	0.7	1.7	23.6
2591	Drapery hardware and blinds and shedes	E1	68	8	0.8	8.0	0.6	1.1	5.4	18.4	15.8	34.0	0.4	(NA)	(NA)
2599	Furniture end fixtures, n.e.c.	-	38	11	0.8	9.7	0.6	1.2	6.0	20.4	23.1	43.4	0.3	(NA)	(NA)
26	Peper and allied products	E1	471	228	22.1	275.6	17.3	34.3	182.6	568.2	662.3	1 227.8	54.9	25.4	407.1
264	Miscelleneous converted paper products	E2	291	116	11.4	138.9	8.8	17.4	91.0	299.6	360.2	655.4	33.7	12.3	196.1
2641	Peper coating and glazing	E3	36	15	1.0	14.4	0.8	1.6	9.8	24.8	30.2	55.2	0.9	1.1	20.0
2642	Envelopes	-	30	21	2.6	31.7	2.1	4.1	21.8	65.1	67.3	131.9	3.5	2.8	45.6
2643	Bags, except textile bags	E3	54	23	1.8	23.2	1.3	2.5	13.1	44.6	72.8	116.8	7.8	2.6	37.7
2645	Die-cut paper and board	E1	60	21	1.7	20.7	1.4	2.7	14.1	42.3	51.9	93.8	(D)	2.2	38.2
2649	Converted paper products, n.e.c.	E3	80	28	3.0	36.0	2.3	4.7	23.0	74.4	89.1	160.5	6.2	1.4	20.2
265	Paperboard containers and boxes	E1	168	104	10.0	121.8	7.9	15.6	82.0	226.0	242.1	470.2	12.1	12.3	190.2
2651	Folding paperboard boxes	-	51	30	2.8	38.3	2.3	4.6	27.2	73.3	68.1	143.1	2.7	3.2	55.2
2652	Setup paperboard boxes	E2	37	28	2.2	19.5	1.9	3.4	13.8	32.9	22.4	55.5	1.2	2.9	34.5
2653	Corrugated and solid fiber boxes	E1	58	38	3.8	51.0	2.8	5.6	31.5	95.6	127.4	222.8	7.1	4.9	81.8
2655	Fiber cans, drums, and similer products	-	13	5	0.7	8.3	0.6	1.3	6.1	13.4	10.8	24.2	0.7	0.9	10.0
27	Printing and publishing	-	4 670	892	120.1	1 855.4	48.4	88.3	679.6	5 437.3	2 959.2	8 411.8	140.7	130.8	3 631.2
2711	Newspapers	-	227	53	17.7	329.6	9.8	15.6	181.7	592.6	270.9	863.3	24.4	19.4	437.5
2721	Periodicals	-	494	130	27.6	465.7	1.6	3.2	27.9	1 973.7	1 184.1	3 150.8	24.8	25.7	1 067.1
273	Books	-	494	137	22.2	327.7	3.5	7.1	39.5	1 465.3	725.9	2 213.1	30.4	23.5	963.2
2731	Book publishing	-	363	103	19.4	290.3	1.4	3.1	14.9	1 400.5	677.0	2 095.4	26.9	20.4	902.8
2732	Book printing	E2	131	34	2.8	37.4	2.1	3.9	24.5	64.8	48.9	117.7	3.5	3.1	60.4
2741	Miscellaneous publishing	-	393	46	9.6	116.1	1.5	2.8	12.6	268.0	103.9	371.1	8.0	9.8	173.7
275	Commercial printing	E2	2 243	313	26.5	388.5	19.9	37.0	263.3	724.2	505.1	1 227.1	34.9	31.2	615.8
2751	Commercial printing, letterpress	E3	1 220	130	9.7	119.3	7.6	13.7	80.5	228.3	152.1	379.2	12.5	12.7	223.4
2752	Commercial printing, lithographic	E1	922	168	14.4	234.3	10.5	20.0	156.5	419.7	326.7	744.3	17.9	16.1	342.8
2753	Engraving and plate printing	-	61	12	2.1	30.1	1.6	2.7	22.8	68.2	20.6	89.8	3.8	1.8	35.8
2754	Commercial printing, gravure	E3	40	3	0.3	4.7	0.3	0.5	3.6	8.0	5.7	13.7	0.7	0.6	13.8
2761	Manifold business forms	-	47	16	1.4	18.5	0.9	1.8	9.9	40.6	30.8	70.8	(D)	1.6	31.8
2771	Greeting card publishing	E1	36	9	1.0	9.6	0.5	0.9	3.4	22.0	15.8	37.1	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York, N.Y.-N.J., SMSA—Con.													
27	Printing and publishing—Con.													
278	Blankbooks and bookbinding	E1	274	82	5.9	62.3	5.1	9.7	47.7	112.7	53.4	165.7	3.9	8.1	113.7
2782	Blankbooks and looseleaf binders	E1	63	29	1.9	17.2	1.6	3.1	12.0	36.4	32.0	68.5	1.2	3.1	45.3
2789	Bookbinding and related work	E1	211	53	4.0	45.0	3.5	6.6	35.7	76.3	21.4	97.2	2.6	5.0	68.4
279	Printing trade services	E1	462	106	8.1	137.4	5.6	10.4	93.6	238.2	69.2	312.7	12.4	9.7	187.5
2791	Typesetting	E1	295	69	4.3	67.8	3.2	5.9	49.9	120.1	20.8	139.9	5.5	5.3	104.0
2795	Lithographic platemaking services	-	101	23	2.0	35.4	1.3	2.5	21.7	58.4	34.1	98.8	3.6	(NA)	(NA)
28	Chemicals and allied products	-	685	208	27.3	398.2	16.7	32.7	198.9	1 610.1	1 285.9	2 880.8	128.9	28.5	1 190.9
281	Industrial inorganic chemicals	-	21	7	0.8	13.0	0.4	1.0	6.7	50.0	51.8	93.5	20.2	1.0	32.2
2819	Industrial inorganic chemicals, n.e.c.	-	14	3	0.5	9.5	0.3	0.6	4.6	30.3	35.0	59.1	(D)	0.5	17.5
283	Drugs	-	96	35	9.0	131.6	5.6	10.6	71.9	570.2	338.8	904.4	22.3	8.2	518.5
2834	Pharmaceutical preparations	-	65	22	7.8	115.3	4.9	9.1	62.4	517.8	278.1	794.5	16.9	7.2	494.5
284	Soaps, cleaners, and toilet goods	-	257	76	10.3	151.2	6.4	12.8	71.0	687.3	493.6	1 184.1	21.3	10.6	436.3
2841	Soap and other detergents	-	47	15	2.0	36.3	1.3	2.8	21.6	102.7	166.5	270.0	10.2	1.9	99.3
2842	Polishes and sanitation goods	E1	73	22	1.7	21.5	0.9	1.8	8.7	77.6	68.4	146.9	3.0	2.1	63.4
2843	Surface active agents	-	14	6	0.4	6.2	0.2	0.4	2.8	17.7	32.6	49.4	0.5	0.6	21.9
2844	Toilet preparations	-	123	33	6.2	87.3	4.0	7.8	37.9	489.4	226.0	717.8	7.6	6.0	251.7
2851	Paints and allied products	E2	115	34	2.2	28.4	1.3	2.5	14.0	78.4	107.0	184.2	4.3	3.0	64.2
286	Industrial organic chemicals	-	41	18	2.5	37.7	1.6	3.2	19.2	134.2	169.3	299.9	11.1	1.9	48.8
2865	Cyclic crudes and intermediates	-	11	6	0.8	11.2	0.5	1.0	6.6	33.9	52.7	85.1	(D)	(NA)	(NA)
2869	Industrial organic chemicals, n.e.c.	-	27	12	1.7	26.3	1.1	2.2	12.4	99.9	115.2	212.6	9.3	1.4	35.7
289	Miscellaneous chemical products	E1	141	35	2.4	33.9	1.3	2.4	14.6	78.2	107.8	185.5	(D)	3.2	81.0
2891	Adhesives and sealants	E1	31	7	0.4	6.0	0.3	0.5	2.5	13.0	19.5	32.3	(D)	0.6	17.6
2893	Printing ink	E1	33	15	1.1	16.5	0.6	1.2	8.4	37.8	52.9	90.1	(D)	1.2	27.2
2899	Chemical preparations, n.e.c.	E1	77	13	0.8	11.4	0.4	0.7	3.7	27.4	35.4	63.1	(D)	1.5	36.3
29	Petroleum and coal products	E2	38	11	0.6	9.7	0.3	0.7	5.1	17.1	41.6	59.9	0.9	(NA)	(NA)
295	Paving and roofing materials	E2	24	6	0.3	4.6	0.2	0.4	2.7	8.7	25.2	34.1	0.4	0.9	31.9
30	Rubber and miscellaneous plastics products	E2	541	193	15.2	160.5	12.2	23.3	105.9	339.3	381.0	714.3	28.1	18.3	280.9
3041	Rubber and plastics hose and belting	-	7	5	0.5	5.6	0.3	0.7	3.4	20.4	19.4	38.7	(D)	(NA)	(NA)
3069	Fabricated rubber products, n.e.c.	E4	35	7	0.5	6.0	0.4	0.9	4.2	10.0	7.1	17.0	0.3	0.7	10.7
3079	Miscellaneous plastics products	E2	496	181	14.2	148.7	11.4	21.7	98.2	308.5	354.1	657.7	27.2	16.5	252.5
31	Leather and leather products	E2	497	211	18.6	142.7	16.1	29.1	101.8	282.9	272.1	552.5	6.6	23.7	240.9
314	Footwear, except rubber	E1	57	34	4.4	32.2	3.9	6.8	25.3	55.9	47.2	103.2	1.9	6.7	66.2
3149	Footwear, except rubber, n.e.c.	E5	12	7	0.6	4.5	0.6	0.9	3.7	8.4	6.7	15.1	(D)	(NA)	(NA)
3161	Luggage	E1	69	37	3.7	29.5	3.2	5.7	20.4	59.2	52.5	110.5	0.7	3.3	34.5
317	Handbags and other personal leather goods	E2	247	121	9.0	68.8	7.8	14.5	47.9	145.4	142.5	287.2	3.5	12.0	119.8
3171	Women's handbags and purses	E2	177	87	6.8	51.6	6.0	11.2	37.3	112.2	106.0	217.8	2.9	8.9	83.4
3172	Personal leather goods	E2	70	34	2.2	17.2	1.8	3.3	10.6	33.2	36.4	69.4	0.6	3.0	36.4
3199	Leather goods, n.e.c.	E3	66	12	1.0	7.5	0.8	1.4	4.8	13.9	14.4	27.7	0.2	(NA)	(NA)
32	Stone, clay, and glass products	E1	379	84	6.6	79.2	5.1	10.1	54.3	172.8	173.1	346.8	13.4	9.2	160.4
322	Glass and glassware, pressed or blown	-	14	4	0.5	6.7	0.5	1.0	5.6	19.5	13.8	33.6	0.7	(NA)	(NA)
3231	Products of purchased glass	E2	101	25	2.0	22.2	1.6	3.1	15.3	45.7	40.7	85.7	4.4	2.2	31.1
326	Pottery and related products	E3	26	6	0.3	2.6	0.3	0.5	1.9	5.6	3.0	8.6	0.3	0.5	6.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York, N.Y.-N.J., SMSA—Con.													
32	Stone, clay, and glass products—Con.													
327	Concrete, gypsum, and plaster products	E1	111	23	1.8	25.8	1.3	2.6	17.7	48.5	73.8	123.8	4.4	3.3	75.4
3272	Concrete products, n.e.c.	E4	51	6	0.4	5.0	0.3	0.6	3.1	10.7	7.6	18.2	0.6	0.9	16.4
3273	Ready-mixed concrete	E1	39	11	0.7	11.4	0.5	0.9	7.7	19.3	27.6	46.9	1.0	1.4	35.8
3275	Gypsum products	–	7	4	0.5	7.5	0.4	0.9	5.8	15.0	32.9	49.6	(D)	0.8	17.8
3281	Cut stone and stone products	E2	30	2	0.3	2.5	0.1	0.3	1.2	4.5	3.2	7.7	0.1	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products	E2	92	22	1.7	18.9	1.3	2.6	12.1	47.9	37.9	85.5	3.5	2.0	30.8
3291	Abrasive products	E3	28	11	0.7	8.0	0.5	1.0	5.0	22.6	17.9	40.4	1.5	0.6	9.1
3299	Nonmetallic mineral products, n.e.c.	E2	38	5	0.4	4.2	0.3	0.6	2.5	10.2	4.7	15.0	1.0	0.5	6.3
33	Primary metal industries	–	221	85	11.3	147.3	8.4	17.0	95.0	343.9	855.4	1 190.3	13.3	13.2	221.0
331	Blast furnace and basic steel products	E2	32	11	0.9	11.6	0.7	1.4	7.9	19.7	30.0	50.3	1.0	1.3	23.9
3315	Steel wire and related products	E1	16	6	0.4	4.8	0.3	0.6	3.0	9.1	11.6	20.8	(D)	(NA)	(NA)
3341	Secondary nonferrous metals	–	27	6	1.2	18.9	0.9	1.6	11.3	57.5	264.5	312.6	3.1	1.3	30.9
335	Nonferrous rolling and drawing	–	43	26	4.7	58.8	3.2	6.5	34.7	147.1	478.0	624.3	4.1	5.6	91.3
3356	Nonferrous rolling and drawing, n.e.c.	–	21	11	0.8	11.6	0.6	1.2	7.0	42.6	269.3	310.8	0.9	(NA)	(NA)
3357	Nonferrous wire drawing and insulating	–	16	12	3.2	39.1	2.1	4.1	22.2	88.6	177.7	266.7	2.9	4.1	68.0
336	Nonferrous foundries	E1	58	22	2.1	22.3	1.7	3.2	15.6	40.4	36.0	77.7	1.9	2.7	34.4
3361	Aluminum foundries	E3	17	6	0.4	4.3	0.3	0.7	3.3	6.9	6.1	12.9	0.7	(NA)	(NA)
3369	Nonferrous foundries, n.e.c.	–	26	12	1.5	15.8	1.1	2.2	10.7	29.8	27.0	58.2	1.1	2.1	27.7
339	Miscellaneous primary metal products	E1	40	13	1.2	18.4	1.0	2.5	13.3	46.0	15.1	60.8	1.6	1.1	20.4
3398	Metal heat treating	–	24	7	1.0	14.8	0.8	2.0	11.0	38.2	9.0	47.1	1.1	0.9	17.1
3399	Primary metal products, n.e.c.	E2	16	6	0.3	3.7	0.2	0.5	2.3	7.8	6.1	13.7	0.5	(NA)	(NA)
34	Fabricated metal products	E1	1 498	450	38.3	456.9	28.9	56.9	283.4	909.5	801.0	1 699.0	44.1	42.1	680.9
341	Metal cans and shipping containers	E1	18	8	0.8	10.6	0.6	1.3	8.2	25.6	34.6	60.0	(D)	1.7	31.6
3411	Metal cans	E1	13	5	0.3	5.7	0.3	0.6	4.8	12.8	16.1	28.6	0.4	(NA)	(NA)
3412	Metal barrels, drums, and pails	E1	5	3	0.4	4.9	0.3	0.7	3.4	12.9	18.5	31.4	(D)	(NA)	(NA)
342	Cutlery, hand tools, and hardware	–	95	38	4.7	52.3	3.6	6.8	33.5	123.6	73.5	193.1	7.5	4.4	76.4
3421	Cutlery	–	5	3	0.5	4.8	0.4	0.8	3.1	13.6	6.9	18.5	(D)	(NA)	(NA)
3429	Hardware, n.e.c.	E1	60	21	3.0	35.3	2.3	4.2	21.7	79.9	49.0	127.7	3.4	3.7	63.0
343	Plumbing and heating, except electric	E1	41	13	1.2	12.4	0.8	1.4	5.6	26.9	29.8	58.3	1.1	1.3	28.9
3432	Plumbing fittings and brass goods	E1	16	6	0.9	7.8	0.6	1.0	3.6	16.0	17.4	35.3	(D)	(NA)	(NA)
344	Fabricated structural metal products	E1	441	108	9.9	137.8	6.8	13.4	76.7	257.2	239.3	496.8	13.3	11.9	194.0
3441	Fabricated structural metal	E2	98	14	1.2	17.9	0.9	1.8	11.3	40.1	30.7	70.0	1.5	2.6	60.0
3442	Metal doors, sash, and trim	E1	87	27	2.7	26.8	2.0	3.9	18.8	43.0	48.3	91.3	1.1	3.4	39.5
3443	Fabricated plate work (boiler shops)	–	35	12	2.1	39.6	1.1	2.1	14.7	70.1	70.3	141.5	2.8	0.8	14.0
3444	Sheet metal work	E2	113	36	2.3	30.5	1.7	3.3	19.0	59.1	46.3	106.0	2.8	3.1	47.8
3446	Architectural metal work	E2	92	14	0.9	12.5	0.7	1.3	7.9	25.8	16.0	41.9	(D)	1.6	24.9
345	Screw machine products, bolts, etc.	E1	80	30	2.1	26.1	1.6	3.3	16.9	46.4	42.7	87.9	1.9	2.5	42.5
3451	Screw machine products	E2	51	15	0.9	10.7	0.8	1.7	7.8	20.0	14.4	34.3	0.7	1.3	19.8
3452	Bolts, nuts, rivets, and washers	–	29	15	1.2	15.4	0.8	1.6	9.1	26.4	28.3	53.6	1.2	1.2	22.7
346	Metal forgings and stampings	E1	174	73	5.7	68.3	4.5	9.1	45.5	142.8	140.7	281.1	7.3	5.6	90.4
347	Metal services, n.e.c.	E2	315	82	5.4	49.3	4.6	8.8	34.9	88.9	49.6	137.9	3.2	5.5	67.8
3471	Plating and polishing	E2	219	62	4.4	39.0	3.8	7.2	27.9	72.1	33.1	104.7	2.6	4.3	52.7
3479	Metal coating and allied services	E2	96	20	1.0	10.4	0.9	1.6	7.0	16.8	16.5	33.2	0.7	1.2	15.2
349	Miscellaneous fabricated metal products	E1	328	97	8.4	99.7	6.3	12.6	61.9	197.4	190.5	382.9	9.3	8.5	137.7

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York, N.Y.-N.J., SMSA—Con.														
34	Fabricated metal products—Con.														
349	Miscellaneous fabricated metal products—Con.														
3494	Valves and pipe fittings	–	29	11	1.8	24.8	1.2	2.5	14.5	58.7	39.7	96.0	3.2	1.9	44.6
3496	Miscellaneous fabricated wire products	E2	89	25	2.0	20.8	1.6	3.3	14.2	41.6	38.2	79.6	1.7	2.8	35.8
3497	Metal foil and leaf	E1	8	4	0.3	4.0	0.2	0.4	2.6	9.1	14.6	23.8	0.6	(NA)	(NA)
3498	Fabricated pipe and fittings	–	21	11	1.1	14.2	0.8	1.5	8.6	24.6	32.5	55.3	1.3	0.6	10.6
3499	Fabricated metal products, n.e.c.	E2	172	40	2.9	31.4	2.2	4.3	19.0	53.6	59.2	112.3	2.3	2.5	33.2
35	Machinery, except electrical	E1	1 300	234	24.2	322.3	16.6	32.0	185.2	607.3	466.7	1 067.6	38.2	28.0	471.8
353	Construction and related machinery	E1	60	13	1.9	29.3	1.1	2.3	15.7	48.3	36.5	83.1	1.8	3.7	55.9
3534	Elevators and moving stairways	–	11	7	1.3	20.2	0.8	1.6	11.1	26.1	14.6	40.4	(D)	(NA)	(NA)
354	Metalworking machinery	E1	281	44	3.7	49.2	2.7	5.2	32.1	81.1	55.4	136.6	4.7	3.5	56.7
3544	Special dies, tools, jigs, and fixtures	E2	201	25	2.0	26.1	1.6	3.2	18.8	42.1	23.1	64.6	2.6	2.0	33.6
3545	Machine tool accessories	–	38	10	0.9	12.6	0.6	1.1	7.4	24.6	19.4	44.4	1.6	0.8	13.6
355	Special industry machinery	E1	219	52	4.9	68.8	3.0	5.8	34.7	130.6	95.0	222.0	6.0	5.7	99.9
3551	Food products machinery	E4	32	8	0.7	9.2	0.4	0.8	4.1	19.3	14.4	33.5	1.1	0.8	15.1
3555	Printing trades machinery	E1	77	18	1.6	23.3	1.0	2.0	12.9	43.3	36.0	78.4	1.5	1.7	34.1
3559	Special industry machinery, n.e.c.	E2	59	12	0.9	12.2	0.6	1.3	7.3	23.5	14.5	37.6	0.7	1.0	16.8
356	General industrial machinery	E1	150	41	3.3	44.8	2.2	4.2	24.6	87.4	69.3	155.6	4.0	3.2	63.3
3561	Pumps and pumping equipment	–	13	5	0.6	8.5	0.3	0.6	3.7	20.1	16.3	36.6	0.7	0.6	13.6
357	Office and computing machines	–	45	11	3.2	39.1	2.2	4.4	18.9	85.3	88.9	175.5	4.6	3.3	60.5
358	Refrigeration and service machinery	E1	93	26	2.8	32.9	1.9	3.4	18.5	66.8	72.2	136.3	2.6	4.0	64.3
3585	Refrigeration and heating equipment	E2	38	15	1.3	14.8	1.0	1.7	9.7	28.6	34.9	62.5	1.7	2.2	34.5
3589	Service industry machinery, n.e.c.	E1	43	7	1.0	12.0	0.5	1.0	5.6	27.1	25.5	51.1	(D)	1.2	21.7
3599	Machinery, except electrical, n.e.c.	E2	436	44	4.3	56.4	3.4	6.6	39.5	104.9	47.2	153.3	14.3	(NA)	(NA)
36	Electric and electronic equipment	E1	893	303	39.6	475.9	26.4	50.5	243.1	1 098.4	751.4	1 821.2	40.4	49.9	797.8
3613	Switchgear and switchboard apparatus	E1	21	10	0.8	9.0	0.5	1.0	5.3	15.1	15.2	30.1	(D)	(NA)	(NA)
362	Electrical industrial apparatus	–	47	14	2.7	37.3	1.3	2.5	12.1	67.2	43.4	110.1	2.5	3.6	58.1
3621	Motors and generators	–	13	3	0.6	6.7	0.5	0.9	4.6	12.3	9.0	21.5	0.2	1.1	11.5
3622	Industrial controls	E1	20	5	0.8	9.3	0.5	0.8	3.9	18.0	9.8	27.7	0.8	1.3	22.2
363	Household appliances	E2	65	22	1.4	15.1	1.1	2.1	9.7	33.1	27.8	61.0	(D)	4.6	73.4
3634	Electric housewares and fans	E1	18	6	0.4	3.5	0.3	0.6	2.0	10.9	9.3	20.6	0.3	2.7	46.5
364	Electric lighting and wiring equipment	E1	213	86	10.7	109.6	8.4	16.3	70.0	251.3	213.5	452.6	6.9	13.3	195.5
3644	Noncurrent-carrying wiring devices	–	11	6	0.5	5.4	0.5	0.9	4.1	19.5	9.5	28.9	0.2	(NA)	(NA)
3645	Residential lighting fixtures	E1	112	40	2.8	26.9	2.2	4.1	17.2	57.0	55.5	115.0	0.9	4.4	63.3
3646	Commercial lighting fixtures	E2	24	17	1.3	15.3	1.0	1.9	8.5	33.2	30.8	63.8	0.8	1.4	23.0
3648	Lighting equipment, n.e.c.	E4	22	10	0.5	5.3	0.4	0.8	3.3	10.3	11.2	21.5	0.4	0.5	8.4
365	Radio and TV receiving equipment	E1	175	33	3.6	37.1	2.6	5.0	21.2	160.0	112.1	254.0	2.4	3.7	64.1
3651	Radio and TV receiving sets	–	43	10	1.5	12.9	1.1	2.1	8.7	46.8	60.0	89.5	0.7	2.3	22.8
3652	Phonograph records and prerecorded tape	E1	132	23	2.1	24.2	1.5	2.9	12.5	113.2	52.1	164.5	1.8	1.4	41.3
367	Electronic components and accessories	E1	176	51	7.1	76.6	5.2	9.8	45.2	137.3	87.6	221.9	9.4	7.7	102.1
3674	Semiconductors and related devices	E1	22	10	1.0	13.3	0.7	1.4	8.1	25.1	24.3	48.1	2.2	1.3	14.4
3677	Electronic coils and transformers	–	8	6	0.7	7.1	0.4	0.8	3.1	11.1	3.8	14.7	0.1	0.5	7.3
3678	Electronic connectors	–	8	5	1.9	18.1	1.4	2.5	11.3	29.4	14.4	42.5	2.1	(NA)	(NA)
3679	Electronic components, n.e.c.	E3	128	26	3.1	33.2	2.3	4.4	20.4	62.2	41.5	103.7	4.9	4.0	54.8
369	Miscellaneous electrical equipment and supplies	E1	93	45	6.7	94.5	3.9	7.3	38.4	235.9	142.4	383.4	12.5	3.9	82.3
3693	X-ray, electromedical, and electrotheraputic apparatus	–	27	16	2.9	54.4	1.3	2.4	17.0	155.6	69.8	221.7	5.1	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York, N.Y.-N.J., SMSA—Con.													
36	Electric and electronic equipment—Con.													
369	Miscellaneous electrical equipment and supplies—Con.													
3699	Electrical equipment and supplies, n.e.c.	E1	46	20	1.3	12.1	0.9	1.7	6.9	32.0	28.0	60.2	(D)	(NA)	(NA)
37	Transportation equipment	–	177	67	16.4	280.0	13.9	28.5	225.8	659.4	2 007.2	2 669.5	56.2	20.7	587.0
3713	Truck and bus bodies	E4	17	8	0.3	4.0	0.3	0.6	2.8	6.6	7.9	14.3	0.1	0.4	5.4
3714	Motor vehicle parts and accessories	E2	62	14	1.1	12.4	0.9	1.9	8.3	27.0	30.6	57.2	1.1	1.4	22.1
3728	Aircraft equipment, n.e.c.	E3	18	5	0.5	7.3	0.3	0.7	4.3	13.6	5.3	19.6	0.3	(NA)	(NA)
3732	Boat building and repairing	E1	14	4	0.3	4.0	0.3	0.5	3.3	6.9	4.2	10.9	0.4	(NA)	(NA)
38	Instruments and related products	E1	478	166	20.1	260.3	12.3	24.2	124.2	521.8	426.9	931.4	25.3	22.5	368.4
3811	Engineering and scientific instruments	–	34	13	2.2	36.6	1.1	2.2	15.4	61.5	28.9	92.4	2.3	2.9	52.9
382	Measuring and controlling devices	E1	80	41	3.6	48.2	2.1	4.0	21.2	103.1	64.9	162.1	6.0	2.7	34.9
3825	Instruments to measure electricity	–	27	15	1.8	29.1	1.0	1.9	11.8	64.2	43.2	103.2	1.7	1.1	19.3
3832	Optical instruments and lenses	–	37	11	0.8	10.5	0.5	1.0	5.1	22.9	9.8	32.4	0.6	0.6	11.5
384	Medical instruments and supplies	–	134	36	5.3	66.3	2.9	5.7	29.5	129.3	118.8	244.2	9.7	6.6	121.6
3842	Surgical appliances and supplies	E1	53	17	1.8	21.9	1.2	2.3	12.2	51.3	29.9	79.1	3.8	2.2	35.7
3843	Dental equipment and supplies	–	49	10	0.9	12.4	0.5	1.0	4.6	35.6	56.8	90.6	(D)	1.0	25.5
3851	Ophthalmic goods	E2	58	20	1.9	17.3	1.4	2.8	10.4	32.6	20.2	51.5	1.3	2.3	22.0
3873	Watches, clocks, and watchcases	–	61	25	4.6	55.3	3.2	6.4	30.7	105.4	144.0	242.4	1.8	5.4	91.2
39	Miscellaneous manufacturing industries	E1	2 656	613	52.7	531.3	40.6	73.7	318.7	1 204.2	1 461.4	2 637.2	38.1	61.1	905.8
391	Jewelry, silverware, and plated ware	E1	985	193	14.9	176.2	10.4	18.7	93.4	425.5	811.7	1 217.7	8.5	13.9	258.9
3911	Jewelry, precious metal	E1	719	164	12.4	148.2	8.5	15.3	77.7	336.3	539.1	871.8	7.2	11.1	209.7
3914	Silverware and plated ware	E2	28	8	0.6	5.6	0.5	0.9	4.2	9.6	8.9	18.2	0.2	0.9	10.9
3915	Jewelers' materials and lapidary work	E1	238	21	1.9	22.4	1.4	2.5	11.6	79.6	263.7	327.7	1.2	1.9	38.3
394	Toys and sporting goods	–	214	81	11.3	90.0	9.2	16.0	54.5	227.9	189.9	411.1	9.4	13.3	176.0
3944	Games, toys, and children's vehicles	–	74	28	6.3	55.1	4.9	8.9	30.5	147.9	102.2	245.9	7.2	5.6	92.9
3949	Sporting and athletic goods, n.e.c.	E1	42	16	1.2	9.6	0.9	1.7	6.3	19.2	31.7	50.9	0.9	2.3	33.7
395	Pens, pencils, office and art supplies	E1	104	32	3.0	30.8	2.2	4.5	19.5	71.3	69.7	139.5	2.6	3.4	53.8
3951	Pens and mechanical pencils	E2	32	14	1.1	9.0	0.9	1.8	6.4	24.3	19.2	43.2	0.8	1.0	15.0
3952	Lead pencils and art goods	–	19	8	0.9	9.6	0.6	1.2	5.4	21.3	25.5	45.6	(D)	1.1	16.7
3955	Carbon paper and inked ribbons	–	10	6	0.5	6.0	0.4	0.8	4.6	15.3	20.4	36.1	(D)	(NA)	(NA)
396	Costume jewelry and notions	E1	423	118	8.9	77.4	7.3	13.3	49.6	158.6	138.3	296.4	6.3	10.9	141.7
3961	Costume jewelry	E1	194	51	3.4	28.9	2.7	4.8	17.3	64.0	49.1	111.4	(D)	4.5	57.8
3962	Artificial flowers	–	46	14	1.0	8.7	0.9	1.6	5.7	17.9	22.2	39.9	(D)	(NA)	(NA)
3964	Needles, pins, and fasteners	E1	95	33	3.1	25.2	2.5	4.7	17.7	55.1	49.0	104.0	3.5	3.6	50.7
399	Miscellaneous manufactures	E2	905	183	13.7	147.0	10.6	19.7	94.6	302.6	242.6	544.3	10.9	18.6	262.8
3991	Brooms and brushes	E2	34	14	1.2	11.7	0.9	1.6	6.7	29.1	24.2	53.1	1.7	1.8	25.4
3993	Signs and advertising displays	E1	263	71	5.3	60.4	4.0	7.6	37.6	113.7	79.2	192.7	4.3	5.4	83.7
3995	Burial caskets	–	19	4	0.3	3.1	0.2	0.4	1.9	5.7	10.0	15.7	0.2	(NA)	(NA)
	Newark SMSA	–	**4 638**	**1 733**	**255.5**	**3 853.3**	**145.5**	**287.4**	**1 702.3**	**7 870.8**	**9 520.5**	**17 304.3**	**461.5**	**271.8**	**5 608.6**
20	Food and kindred products	–	173	75	10.7	157.7	7.5	14.5	100.0	395.8	887.4	1 279.8	17.8	15.2	379.5
201	Meat products	–	23	12	1.2	17.3	1.0	2.1	12.8	46.6	229.9	276.5	3.1	1.5	54.9
2013	Sausages and other prepared meats	–	13	6	0.5	7.4	0.3	0.7	5.0	18.4	81.6	100.4	0.7	(NA)	(NA)
202	Dairy products	–	18	7	0.7	10.7	0.4	0.8	5.6	25.6	98.7	124.1	2.7	0.8	20.8
2026	Fluid milk	–	9	4	0.5	9.0	0.3	0.6	4.6	21.1	81.1	102.2	2.5	0.5	16.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Newark SMSA—Con.													
20	Food and kindred products—Con.													
203	Preserved fruits and vegetables	E1	18	8	0.7	7.8	0.5	1.1	5.1	18.8	31.0	49.8	1.0	1.1	14.4
2038	Frozen specialties	E1	8	5	0.4	4.4	0.4	0.8	3.2	9.7	14.2	23.9	0.5	(NA)	(NA)
205	Bakery products	-	44	15	2.7	36.2	1.7	3.3	19.2	79.9	74.4	154.0	4.4	4.2	79.1
206	Sugar and confectionery products	-	12	7	0.6	6.4	0.5	1.0	3.9	20.1	51.6	70.7	0.7	0.9	18.8
207	Fats and oils	-	9	4	0.4	6.5	0.2	0.4	2.3	32.0	54.2	83.2	(D)	0.6	14.4
208	Beverages	-	19	12	3.4	60.1	2.6	4.5	42.5	146.1	237.7	383.1	3.4	5.1	158.1
2086	Bottled and canned soft drinks	-	5	4	0.3	3.5	0.1	0.3	1.2	9.9	22.6	32.2	(D)	0.5	15.4
209	Miscellaneous foods and kindred products	-	24	7	0.8	11.7	0.6	1.3	8.0	22.1	102.1	126.0	2.1	0.7	19.0
22	Textile mill products	E1	62	28	2.2	23.4	1.7	3.4	15.0	44.2	42.1	85.9	(D)	3.0	48.5
2257	Circular knit fabric mills	-	9	4	0.6	5.0	0.5	1.0	4.1	9.7	12.4	22.1	0.2	0.4	9.6
2311	Men's and boys' suits and coats	-	6	3	0.4	3.3	0.4	0.6	2.9	4.8	3.0	7.6	(Z)	0.6	4.7
232	Men's and boys' furnishings	E1	19	13	1.7	12.2	1.4	2.5	9.4	25.0	31.9	55.1	(D)	(NA)	(NA)
233	Women's and misses' outerwear	E2	134	72	4.2	29.0	3.9	6.8	24.0	51.6	30.4	81.9	(D)	5.0	32.4
236	Children's outerwear	E1	31	19	1.2	8.0	1.0	1.8	6.5	12.8	8.4	21.2	(D)	1.3	9.5
2361	Children's dresses and blouses	-	16	11	0.6	4.1	0.5	0.9	3.4	5.9	3.7	9.6	(D)	0.6	4.2
238	Miscellaneous apparel and accessories	-	17	13	0.9	7.0	0.8	1.5	5.2	14.8	12.0	26.5	(D)	1.7	15.8
2385	Waterproof outer garments	E1	8	7	0.4	2.3	0.3	0.6	1.8	6.5	1.5	7.9	(D)	0.5	4.4
2386	Leather and sheep lined clothing	-	4	3	0.3	2.7	0.3	0.5	2.0	4.5	5.1	9.7	(D)	(NA)	(NA)
25	Furniture and fixtures	E1	93	36	3.4	34.7	2.6	4.9	23.1	68.4	72.9	140.0	(D)	3.9	66.6
2515	Mattresses and bedsprings	E1	11	7	1.0	12.3	0.8	1.5	8.5	23.9	26.8	49.0	(D)	1.6	29.6
26	Paper and allied products	-	123	75	7.3	100.7	5.4	11.3	63.7	188.3	331.7	506.5	21.1	6.9	119.2
264	Miscellaneous converted paper products	-	59	31	3.3	46.7	2.4	5.0	27.7	90.8	170.8	247.5	14.5	2.4	42.6
2641	Paper coating and glazing	E1	11	7	0.7	11.9	0.5	1.0	6.2	22.0	31.3	53.0	0.9	1.0	12.7
2643	Bags, except textile bags	-	9	6	0.5	6.0	0.4	0.8	4.5	17.9	42.6	61.2	0.7	(NA)	(NA)
2645	Die-cut paper and board	-	13	7	0.7	9.1	0.5	1.1	5.8	22.5	36.8	59.2	(D)	0.4	7.7
2647	Sanitary paper products	-	4	3	0.7	11.1	0.4	0.9	5.2	11.1	35.3	32.1	(D)	(NA)	(NA)
2649	Converted paper products, n.e.c.	E1	13	6	0.6	7.3	0.5	1.0	5.0	13.7	21.2	34.8	(D)	0.3	8.7
265	Paperboard containers and boxes	-	53	37	3.0	39.8	2.3	4.6	25.7	74.8	111.8	186.5	5.1	3.2	50.6
2651	Folding paperboard boxes	-	10	7	0.4	5.1	0.4	0.7	3.5	10.9	11.7	22.5	0.5	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	26	16	1.5	23.7	1.1	2.2	14.2	42.0	55.8	97.7	3.9	1.8	30.4
2655	Fiber cans, drums, and similar products	-	7	6	0.4	4.0	0.3	0.6	3.0	7.3	11.0	18.4	0.2	0.3	4.3
27	Printing and publishing	-	580	109	14.4	177.6	8.3	15.3	95.0	381.1	204.5	578.7	17.9	12.9	233.0
2711	Newspapers	-	58	13	3.2	32.8	1.0	1.4	13.2	77.3	40.6	117.9	5.3	3.2	60.8
2721	Periodicals	E1	35	5	0.4	4.5	0.2	0.3	1.5	7.9	7.8	15.7	(D)	(NA)	(NA)
273	Books	-	37	10	1.4	18.9	0.5	0.9	5.9	43.9	21.7	66.0	1.4	1.2	34.8
2731	Book publishing	-	22	5	1.1	14.5	0.2	0.4	2.6	36.8	18.8	56.1	0.3	(NA)	(NA)
2732	Book printing	E1	15	5	0.3	4.5	0.2	0.4	3.3	7.1	2.8	9.9	1.2	(NA)	(NA)
2741	Miscellaneous publishing	-	20	2	0.4	6.2	0.1	0.2	1.1	12.0	5.8	17.5	(D)	0.6	12.3
275	Commercial printing	E1	338	51	4.7	60.7	3.7	6.7	39.7	105.9	73.5	178.7	5.8	4.1	66.2
2751	Commercial printing, letterpress	E2	195	22	2.1	23.8	1.8	3.1	16.9	42.9	28.8	71.4	2.0	1.7	27.7
2752	Commercial printing, lithographic	E1	135	27	2.5	35.4	1.8	3.4	21.6	60.9	43.8	104.4	3.7	2.0	30.7
278	Blankbooks and bookbinding	-	23	13	2.8	32.1	2.0	4.0	21.9	83.7	29.1	107.8	1.5	2.3	31.4
2782	Blankbooks and looseleaf binders	-	7	5	1.9	22.3	1.3	2.7	14.2	69.1	24.0	87.8	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Newark SMSA—Con.													
27	Printing and publishing—Con.													
278	Blankbooks and bookbinding—Con.													
2789	Bookbinding and related work	-	16	8	0.8	9.8	0.7	1.3	7.7	14.6	5.1	20.1	(D)	(NA)	(NA)
279	Printing trade services	-	59	11	1.3	18.8	0.8	1.4	9.8	44.3	21.4	64.3	1.1	0.8	16.6
2791	Typesetting	E2	40	5	0.4	4.6	0.3	0.5	3.3	7.3	1.5	8.6	0.7	0.3	4.8
28	Chemicals and allied products	-	301	150	37.8	664.0	19.3	39.5	275.7	2 887.1	1 669.8	4 551.1	210.3	38.7	1 824.6
281	Industrial inorganic chemicals	-	34	15	1.1	20.0	0.7	1.6	11.4	69.7	177.1	248.0	5.5	1.6	55.9
2819	Industrial inorganic chemicals, n.e.c.	-	15	10	0.8	12.9	0.5	1.0	6.9	49.4	145.2	195.9	3.4	1.2	42.7
282	Plastics materials and synthetics	-	14	10	2.2	35.9	1.2	2.5	18.9	119.9	148.1	272.7	(D)	2.7	88.3
283	Drugs	-	47	32	20.2	380.0	8.6	17.3	121.9	1 791.6	443.2	2 233.2	85.0	20.5	1 155.6
2831	Biological products	-	7	5	1.4	22.9	0.5	1.0	6.1	54 7	15.3	68.5	4.9	(NA)	(NA)
2834	Pharmaceutical preparations	-	34	23	17.4	325.2	7.3	14.5	97.7	1 564.1	358.8	1 924.3	(D)	(NA)	(NA)
284	Soaps, cleaners, and toilet goods	-	50	19	3.7	57.6	1.8	3.6	21.3	262.1	173.9	431.7	13.3	3.3	180.4
2844	Toilet preparations	-	16	7	2.3	35.3	0.9	1.8	9.7	148.2	72.7	215.4	6.7	2.3	105.2
2851	Paints and allied products	-	46	22	1.7	26.6	1.0	2.0	12.7	82.6	104.7	187.2	1.4	(NA)	(NA)
286	Industrial organic chemicals	-	40	25	6.0	104.9	4.2	8.6	66.9	433.0	479.7	907.5	73.8	5.9	172.5
287	Agricultural chemicals	-	7	4	0.5	5.2	0.4	0.8	3.5	24.7	42.0	66.2	(D)	(NA)	(NA)
289	Miscellaneous chemical products	-	63	23	2.4	33.8	1.5	3.1	19.1	103.5	101.0	204.5	14.7	2.0	72.7
2891	Adhesives and sealants	-	11	6	0.6	8.9	0.4	0.9	5.3	36.2	36.9	73.4	(D)	0.3	7.3
2899	Chemical preparations, n.e.c.	-	44	13	1.3	18.0	0.8	1.5	9.6	46.3	50.7	96.7	(D)	1.0	48.5
30	Rubber and miscellaneous plastics products	-	275	133	12.3	137.6	9.2	19.8	86.7	321.1	305.6	622.4	25.2	11.2	184.7
3041	Rubber and plastics hose and belting	-	6	3	0.5	6.3	0.4	0.8	4.4	14.0	9.6	24.4	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	-	248	124	11.3	126.7	8.5	18.3	79.2	298.0	285.0	578.0	23.4	9.6	160.3
3111	Leather tanning and finishing	-	23	5	0.9	12.2	0.7	1.4	8.6	19.0	44.9	63.5	(D)	1.8	27.5
317	Handbags and other personal leather goods	E4	8	6	0.8	5.1	0.7	1.3	3.7	9.7	9.1	18.9	(D)	1.2	14.8
32	Stone, clay, and glass products	-	126	41	4.5	63.8	3.6	7.2	47.2	133.1	123.0	251.5	10.6	5.7	116.8
322	Glass and glassware, pressed or blown	-	11	5	1.1	14.5	0.9	1.8	11.9	33.0	26.8	60.8	2.6	(NA)	(NA)
3231	Products of purchased glass	E3	14	5	0.3	3.9	0.2	0.5	2.9	7.3	7.0	14.2	1.0	0.6	11.5
327	Concrete, gypsum, and plaster products	E1	45	12	0.7	10.2	0.5	1.0	6.7	18.3	24.2	41.8	5.2	1.4	26.1
3272	Concrete products, n.e.c.	E3	17	6	0.3	4.3	0.2	0.5	3.0	5.4	7.8	12.6	(D)	0.8	11.0
3273	Ready-mixed concrete	-	17	4	0.3	4.2	0.2	0.3	2.6	8.8	11.3	20.0	0.5	0.4	11.0
329	Miscellaneous nonmetallic mineral products	-	36	16	2.2	32.8	1.7	3.6	23.8	69.9	61.6	126.6	1.5	2.6	55.6
3291	Abrasive products	E1	13	6	0.4	4.1	0.3	0.5	2.4	7.3	8.1	15.3	0.1	(NA)	(NA)
33	Primary metal industries	-	116	59	7.5	101.8	5.8	11.8	70.4	223.0	576.3	803.4	12.0	8.3	160.4
331	Blast furnace and basic steel products	-	16	9	0.9	15.9	0.7	1.3	10.0	31.5	70.5	99.9	1.0	0.7	16.4
332	Iron and steel foundries	-	12	6	1.1	13.9	0.8	1.6	9.2	26.9	15.5	42.4	0.9	1.3	25.0
3341	Secondary nonferrous metals	-	9	6	0.6	8.9	0.4	0.8	5.3	10.4	77.4	92.8	3.3	0.8	16.7
335	Nonferrous rolling and drawing	-	24	15	3.4	44.4	2.7	5.7	33.2	120.5	365.8	487.2	3.0	3.4	67.3
3357	Nonferrous wire drawing and insulating	-	11	6	1.4	16.9	1.1	2.2	12.8	56.6	119.4	179.9	1.2	1.5	25.0
3361	Aluminum foundries	E4	10	5	0.4	4.8	0.3	0.7	3.6	8.2	6.5	14.7	0.5	0.6	6.3
3369	Nonferrous foundries, n.e.c.	-	10	6	0.3	2.8	0.2	0.4	2.1	4.9	5.5	10.5	0.8	0.4	5.9
339	Miscellaneous primary metal products	-	26	9	0.6	8.7	0.5	0.9	5.3	16.2	25.9	42.4	0.9	0.7	12.5
3398	Metal heat treating	E1	15	4	0.3	3.8	0.2	0.4	2.4	6.2	2.7	8.8	(D)	(NA)	(NA)
3399	Primary metal products, n.e.c.	-	11	5	0.4	5.0	0.2	0.5	2.9	10.0	23.3	33.6	(D)	(NA)	(NA)
34	Fabricated metal products	-	611	202	22.5	301.0	16.2	32.2	185.6	603.3	488.9	1 084.1	29.0	24.0	440.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Newark SMSA—Con.														
34	Fabricated metal products—Con.														
341	Metal cans and shipping containers	–	12	8	1.4	22.9	1.0	2.1	15.9	41.9	61.6	103.4	1.2	2.2	44.3
342	Cutlery, hand tools, and hardware	–	41	17	2.9	35.2	2.3	4.7	24.4	79.1	47.3	123.9	4.8	3.2	54.5
3423	Hand and edge tools, n.e.c.	–	17	8	1.1	14.4	0.8	1.7	9.5	38.9	17.1	55.7	1.5	(NA)	(NA)
344	Fabricated structural metal products	E1	147	46	3.5	43.0	2.4	4.7	26.4	78.2	77.9	156.8	5.4	4.2	78.6
3441	Fabricated structural metal	E1	31	9	0.9	11.5	0.5	1.1	6.3	21.9	16.4	37.6	2.0	0.8	13.3
3442	Metal doors, sash, and trim	–	20	10	0.6	5.6	0.5	0.9	3.6	13.8	15.1	28.8	0.6	0.6	9.3
3443	Fabricated plate work (boiler shops)	E1	26	11	0.7	10.9	0.5	1.1	6.8	16.8	15.4	32.9	1.8	0.7	16.5
3444	Sheet metal work	E3	49	11	0.8	9.9	0.6	1.2	7.0	17.1	17.7	35.2	0.6	1.5	28.0
345	Screw machine products, bolts, etc.	–	71	22	2.6	39.0	1.9	4.0	25.2	73.2	49.5	120.4	3.2	2.9	56.7
3451	Screw machine products	E2	56	14	1.0	13.2	0.9	1.9	9.9	21.4	12.4	33.7	1.2	1.0	14.5
3452	Bolts, nuts, rivets, and washers	–	15	8	1.6	25.8	1.0	2.1	15.3	51.8	37.1	86.8	2.0	1.8	42.2
346	Metal forgings and stampings	–	91	38	3.6	43.9	2.9	5.8	30.9	84.2	66.1	149.7	5.7	2.9	43.2
3469	Metal stampings, n.e.c.	–	82	35	3.2	39.1	2.6	5.2	27.8	73.9	58.2	131.5	5.3	(NA)	(NA)
347	Metal services, n.e.c.	–	108	19	1.6	18.4	1.1	2.3	11.1	35.6	48.1	82.0	1.2	1.2	17.0
3471	Plating and polishing	–	76	13	0.8	9.4	0.7	1.4	6.3	20.5	40.7	59.6	1.0	0.6	8.6
3479	Metal coating and allied services	–	32	6	0.8	9.0	0.4	0.9	4.8	15.0	7.4	22.4	0.2	0.6	8.4
349	Miscellaneous fabricated metal products	–	128	45	6.2	89.2	4.1	7.6	46.3	191.7	125.5	316.3	7.1	6.8	135.0
3494	Valves and pipe fittings	–	17	10	2.6	41.0	1.4	2.6	18.5	95.0	36.6	131.7	1.9	3.2	73.3
3496	Miscellaneous fabricated wire products	–	25	8	0.5	6.0	0.4	0.7	3.6	12.7	11.2	23.4	0.4	0.5	8.3
3498	Fabricated pipe and fittings	–	8	6	1.1	15.5	0.8	1.2	7.1	28.3	26.0	53.7	0.8	(NA)	(NA)
3499	Fabricated metal products, n.e.c.	–	65	15	1.2	14.9	0.9	1.9	9.6	27.7	25.4	54.0	2.0	1.5	27.3
35	Machinery, except electrical	–	792	189	21.6	324.5	14.4	28.7	189.8	606.5	459.7	1 054.9	32.7	23.0	494.8
353	Construction and related machinery	–	24	11	0.9	12.8	0.6	1.1	5.7	27.9	17.2	46.9	1.1	0.8	45.6
3535	Conveyors and conveying equipment	–	9	5	0.3	3.2	0.2	0.4	2.0	7.3	5.3	12.4	0.1	(NA)	(NA)
354	Metalworking machinery	E1	245	47	3.9	57.1	2.9	6.1	38.8	96.6	52.6	147.5	5.4	4.3	76.3
3544	Special dies, tools, jigs, and fixtures	E1	177	24	2.2	33.6	1.8	3.8	24.8	60.0	21.4	80.5	3.7	2.7	45.2
3545	Machine tool accessories	E1	23	6	0.4	6.3	0.3	0.7	4.0	9.9	7.8	16.9	0.9	0.4	6.5
3549	Metalworking machinery, n.e.c.	–	18	10	0.8	10.6	0.6	1.1	6.8	16.5	16.7	33.7	0.6	(NA)	(NA)
355	Special industry machinery	–	98	40	5.5	82.8	2.9	6.0	38.4	174.9	133.6	307.2	5.4	5.8	109.2
3551	Food products machinery	–	12	5	0.4	5.4	0.2	0.4	2.0	12.7	4.9	17.5	(D)	(NA)	(NA)
3555	Printing trades machinery	–	18	9	1.6	23.6	0.8	1.7	10.3	74.0	54.3	120.4	2.0	2.2	46.6
3559	Special industry machinery, n.e.c.	–	55	20	2.7	43.0	1.5	3.1	20.6	73.6	57.2	133.7	2.6	2.7	41.7
356	General industrial machinery	–	91	37	5.7	98.5	4.2	8.5	67.7	180.6	134.4	311.3	6.2	6.8	179.2
357	Office and computing machines	–	18	7	1.5	20.1	0.7	0.9	4.9	35.4	48.7	80.1	(D)	0.8	14.8
3573	Electronic computing equipment	–	11	4	0.8	8.1	0.5	0.7	3.1	21.7	31.9	52.2	1.5	(NA)	(NA)
358	Refrigeration and service machinery	–	24	6	1.6	19.8	1.1	2.1	11.5	33.4	38.5	69.4	(D)	2.1	33.3
359	Miscellaneous machinery, except electrical	E2	281	39	2.5	31.9	1.9	3.9	22.0	55.2	26.7	82.0	3.5	2.2	35.0
36	Electric and electronic equipment	–	325	142	30.6	425.1	19.6	37.4	210.3	710.2	491.2	1 196.9	37.4	33.8	562.4
361	Electric distributing equipment	–	28	14	2.7	36.3	1.9	3.6	21.9	79.7	45.5	124.1	(D)	2.6	48.5
3613	Switchgear and switchboard apparatus	–	19	13	2.5	34.7	1.7	3.2	20.7	77.3	43.4	119.6	(D)	2.5	47.4
362	Electrical industrial apparatus	E1	34	13	1.3	15.8	0.9	1.8	8.3	27.6	21.7	48.8	3.9	1.2	16.1
3622	Industrial controls	E2	16	4	0.6	6.7	0.4	0.7	2.9	8.7	6.3	14.5	(D)	(NA)	(NA)
363	Household appliances	–	16	9	4.5	59.1	3.2	6.1	36.1	102.0	52.0	144.7	3.9	3.7	66.1
3634	Electric housewares and fans	–	6	5	0.7	7.7	0.6	1.2	6.1	16.9	10.0	26.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Newark SMSA—Con.													
36	Electric and electronic equipment—Con.													
364	Electric lighting and wiring equipment	-	52	24	4.4	57.1	2.7	5.0	27.0	126.0	100.8	226.3	7.9	8.3	126.3
3643	Current-carrying wiring devices	-	19	8	1.0	10.5	0.8	1.4	6.8	23.9	13.7	37.9	(D)	1.3	22.5
3645	Residential lighting fixtures	-	11	4	0.4	4.8	0.3	0.5	2.3	8.4	9.6	17.7	(D)	0.6	10.2
3648	Lighting equipment, n.e.c.	-	6	4	0.6	7.2	0.3	0.8	3.4	17.4	16.9	34.8	0.5	0.7	11.1
365	Radio and TV receiving equipment	-	20	12	2.0	17.0	1.3	2.5	9.1	42.1	32.4	76.6	(D)	1.7	29.1
3651	Radio and TV receiving sets	-	9	4	0.8	6.0	0.6	1.2	3.8	12.0	14.1	26.5	(D)	(NA)	(NA)
3652	Phonograph records and prerecorded tape	-	11	8	1.2	11.0	0.7	1.4	5.3	30.1	18.3	50.1	0.7	(NA)	(NA)
366	Communication equipment	-	39	15	6.4	108.3	3.7	6.7	49.8	170.8	111.1	293.2	6.6	7.2	159.6
367	Electronic components and accessories	E1	110	46	6.8	92.9	4.2	8.2	38.3	133.4	72.0	202.3	8.7	8.3	102.4
3674	Semiconductors and related devices	E3	10	4	2.0	36.7	0.7	1.2	7.7	17.0	7.8	24.7	(D)	(NA)	(NA)
3676	Electronic resistors	-	6	5	0.6	5.9	0.5	0.9	3.8	11.7	5.6	17.1	0.4	(NA)	(NA)
3679	Electronic components, n.e.c.	E1	78	30	3.1	37.2	2.1	4.4	19.1	79.9	44.9	123.0	3.2	2.6	42.0
369	Miscellaneous electrical equipment and supplies	-	26	9	2.5	38.6	1.6	3.4	19.7	28.7	55.7	80.9	2.1	0.9	14.2
3693	X-ray, electromedical, and electrotheraputic apparatus	-	5	3	0.4	5.4	0.2	0.4	2.2	11.6	8.8	17.8	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories	-	22	7	0.9	14.2	0.4	0.8	4.1	23.5	30.6	53.9	1.1	1.7	19.8
38	Instruments and related products	-	164	70	11.4	149.4	6.4	12.4	66.9	285.4	191.9	476.7	10.2	9.6	185.4
3811	Engineering and scientific instruments	-	14	8	1.6	24.1	0.9	1.7	10.8	54.9	37.3	91.3	2.0	(NA)	(NA)
382	Measuring and controlling devices	-	48	22	2.0	27.3	1.2	2.2	12.5	53.7	29.0	82.7	1.9	2.5	37.8
3825	Instruments to measure electricity	-	17	8	1.2	16.1	0.7	1.3	7.5	27.6	15.8	43.5	0.7	1.7	26.0
384	Medical instruments and supplies	-	43	17	4.9	68.1	2.3	4.5	26.8	113.9	80.7	196.2	4.7	3.6	89.3
3851	Ophthalmic goods	E1	16	5	0.9	9.4	0.7	1.5	5.5	17.3	8.6	25.4	(D)	(NA)	(NA
3861	Photographic equipment and supplies	-	20	9	1.3	12.7	0.9	1.7	7.2	32.0	27.8	59.4	0.9	1.1	17.3
3873	Watches, clocks, and watchcases	-	6	4	0.4	4.4	0.3	0.5	2.4	8.1	4.5	11.9	(D)	(NA)	(NA
39	Miscellaneous manufacturing industries	E1	265	91	7.8	90.2	5.9	11.1	53.4	187.9	188.2	370.1	5.6	10.8	147.7
391	Jewelry, silverware, and plated ware	E1	71	23	2.3	28.8	1.7	3.2	17.0	61.6	74.6	131.7	0.7	2.3	37.7
3911	Jewelry, precious metal	E1	49	19	1.8	23.6	1.3	2.5	13.5	52.7	61.3	109.7	0.4	1.8	30.2
3915	Jewelers' materials and lapidary work	-	13	3	0.3	3.1	0.2	0.4	1.9	6.2	9.4	15.5	0.1	(NA)	(NA)
394	Toys and sporting goods	E1	39	15	1.0	10.8	0.8	1.5	5.8	24.5	21.7	45.5	1.2	2.1	18.5
3944	Games, toys, and children's vehicles	-	16	8	0.7	7.2	0.5	0.9	3.5	16.5	12.4	28.6	0.9	1.6	10.5
395	Pens, pencils, office and art supplies	-	24	5	0.3	3.7	0.3	0.6	2.4	8.6	12.3	20.8	0.4	0.4	6.8
396	Costume jewelry and notions	-	18	8	0.6	5.8	0.5	0.9	4.0	12.3	7.4	19.7	(D)	1.3	17.3
399	Miscellaneous manufactures	-	109	37	3.4	40.1	2.5	4.7	23.5	79.0	70.6	148.7	2.9	4.5	66.1
3991	Brooms and brushes	-	11	6	0.5	5.4	0.3	0.7	3.0	9.9	8.9	18.5	0.3	0.5	7.1
3993	Signs and advertising displays	-	44	17	1.0	10.1	0.8	1.5	6.4	17.0	11.8	28.7	0.8	0.9	11.9
3999	Manufacturing industries, n.e.c.	-	54	14	2.0	24.5	1.4	2.6	14.1	52.0	49.9	101.5	1.9	3.2	47.1
	Paterson-Clifton-Passaic SMSA	-	**1 558**	**636**	**65.3**	**856.5**	**44.1**	**86.2**	**475.8**	**1 647.8**	**1 601.2**	**3 244.3**	**83.3**	**75.5**	**1 179.4**
20	Food and kindred products	-	55	27	2.7	40.8	1.7	3.4	23.6	181.4	211.0	390.7	8.0	3.7	115.3
203	Preserved fruits and vegetables	-	7	3	0.4	5.0	0.3	0.5	2.6	13.8	23.4	37.2	(D)	0.7	11.9
205	Bakery products	-	8	4	1.1	19.4	0.7	1.3	11.0	94.1	50.4	144.3	5.3	1.7	56.0
2051	Bread, cake, and related products	-	8	4	1.1	19.4	0.7	1.3	11.0	94.1	50.4	144.3	5.3	(NA)	(NA)
208	Beverages	-	13	7	0.4	6.6	0.2	0.5	3.6	29.9	43.3	73.4	1.1	0.5	27.1
22	Textile mill products	E1	152	87	7.0	84.7	5.7	11.9	63.2	152.0	199.3	352.7	(D)	9.6	141.7
2221	Weaving mills, manmade fiber and silk	-	12	7	0.7	8.5	0.5	1.0	5.6	14.1	25.4	39.7	0.3	1.4	16.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Paterson-Clifton-Passaic SMSA—Con.													
22	Textile mill products—Con.													
225	Knitting mills	E3	33	10	0.8	6.9	0.8	1.5	5.8	11.5	10.1	21.0	(D)	1.8	17.9
226	Textile finishing, except wool	E1	52	45	3.6	49.1	3.0	6.5	38.9	83.2	93.7	179.1	(D)	4.1	74.5
2261	Finishing plants, cotton	E4	9	7	0.7	7.7	0.6	1.1	6.1	12.2	8.9	21.1	(D)	0.5	6.2
2262	Finishing plants, synthetics	-	35	31	2.5	36.8	2.1	4.6	29.7	62.5	50.5	115.2	(D)	3.4	63.0
2269	Finishing plants, n.e.c.	-	8	7	0.4	4.6	0.4	0.8	3.0	8.5	34.3	42.8	(D)	(NA)	(NA)
229	Miscellaneous textile goods	E3	24	14	1.1	11.8	0.8	1.7	7.8	24.1	36.9	60.7	(D)	1.1	17.5
23	Apparel and other textile products	E1	173	106	7.5	55.7	6.6	11.4	43.0	112.7	103.7	216.7	(D)	9.0	90.7
2311	Men's and boys' suits and coats	-	8	6	0.6	4.2	0.6	1.1	3.9	5.2	1.5	7.1	(D)	1.2	9.1
233	Women's and misses' outerwear	E1	96	66	4.0	28.9	3.6	5.8	22.6	59.5	37.2	95.6	(D)	4.2	37.5
2337	Women's and misses' suits and coats	-	43	38	2.3	17.0	2.2	3.5	14.4	34.1	12.2	46.3	(D)	2.5	18.5
236	Children's outerwear	-	7	5	0.4	3.5	0.4	0.8	2.8	6.8	6.2	13.0	(D)	0.9	8.0
24	Lumber and wood products	E1	35	6	0.3	3.1	0.2	0.4	1.8	5.7	5.9	11.2	(D)	0.5	6.4
25	Furniture and fixtures	E1	39	12	1.0	8.7	0.9	1.7	6.2	16.8	19.3	35.8	(D)	1.4	16.4
251	Household furniture	-	26	9	0.9	7.4	0.8	1.5	5.3	14.6	17.3	31.6	(D)	1.2	13.9
26	Paper and allied products	-	46	22	2.1	28.8	1.6	3.4	18.8	56.2	75.4	131.5	(D)	3.0	44.7
264	Miscellaneous converted paper products	E1	29	12	1.0	12.8	0.7	1.5	7.9	27.1	40.7	67.4	0.9	1.6	23.4
2641	Paper coating and glazing	-	5	3	0.4	5.4	0.2	0.6	2.9	8.5	14.8	23.0	0.2	(NA)	(NA)
2649	Converted paper products, n.e.c.	-	7	5	0.3	3.1	0.2	0.4	2.2	8.3	16.3	24.3	(D)	(NA)	(NA)
2651	Folding paperboard boxes	-	4	3	0.5	6.3	0.4	0.8	4.6	10.1	11.4	22.0	0.4	(NA)	(NA)
27	Printing and publishing	E2	164	41	3.7	44.4	2.3	4.4	27.7	83.9	44.0	128.2	3.9	3.6	57.4
275	Commercial printing	E2	95	24	1.4	17.4	1.1	2.1	12.1	34.9	24.9	59.7	2.1	1.2	20.9
2751	Commercial printing, letterpress	E4	48	7	0.6	6.4	0.5	1.0	4.6	11.3	6.5	17.7	(D)	0.6	9.4
2752	Commercial printing, lithographic	E1	36	13	0.6	8.8	0.4	0.9	5.9	19.4	16.3	35.6	(D)	0.4	8.6
278	Blankbooks and bookbinding	-	15	9	0.7	7.9	0.6	1.2	5.9	14.6	6.7	21.3	1.3	1.0	9.1
2782	Blankbooks and looseleaf binders	-	5	4	0.5	5.1	0.4	0.7	3.8	10.0	5.6	15.7	(D)	(NA)	(NA)
2789	Bookbinding and related work	-	10	5	0.3	2.8	0.2	0.5	2.0	4.6	1.1	5.7	(D)	(NA)	(NA)
28	Chemicals and allied products	-	109	47	5.9	90.6	3.5	6.9	43.2	276.5	271.1	547.7	18.6	6.7	172.6
283	Drugs	-	10	5	0.5	7.0	0.3	0.6	3.3	35.3	25.8	59.8	(D)	(NA)	(NA)
284	Soaps, cleaners, and toilet goods	-	35	13	2.4	36.2	1.2	2.5	12.7	103.3	94.3	195.0	5.4	3.4	92.5
2841	Soap and other detergents	-	8	3	0.3	3.7	0.2	0.4	2.3	9.9	19.4	29.0	(D)	(NA)	(NA)
2842	Polishes and sanitation goods	-	9	4	0.4	6.0	0.3	0.5	3.3	25.0	24.6	49.2	(D)	0.5	14.8
2851	Paints and allied products	E2	14	7	0.4	6.3	0.2	0.5	2.9	19.6	23.3	43.0	1.4	0.4	11.1
286	Industrial organic chemicals	-	20	9	1.5	24.5	1.1	2.1	15.3	64.6	87.1	156.0	5.9	2.1	51.7
2869	Industrial organic chemicals, n.e.c.	-	9	4	0.8	13.4	0.6	1.2	9.2	40.7	53.8	98.3	3.9	(NA)	(NA)
289	Miscellaneous chemical products	-	25	9	0.9	14.9	0.6	1.1	8.3	49.7	34.0	83.5	2.1	0.8	16.1
2899	Chemical preparations, n.e.c.	-	13	5	0.3	4.1	0.2	0.3	2.0	18.5	18.8	37.3	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	85	45	5.4	63.1	4.2	8.3	41.3	152.1	169.2	315.6	11.6	6.4	106.4
3079	Miscellaneous plastics products	E1	68	36	3.9	46.2	3.0	6.1	32.0	111.8	134.6	241.7	8.9	2.8	44.9
31	Leather and leather products	E1	9	4	0.5	2.9	0.4	0.8	2.4	5.7	4.0	9.4	(D)	0.6	3.9
32	Stone, clay, and glass products	E2	38	11	0.8	9.3	0.6	1.2	5.9	20.4	12.6	32.8	(D)	1.6	23.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Paterson-Clifton-Passaic SMSA—Con.													
32	Stone, clay, and glass products—Con.													
329	Miscellaneous nonmetallic mineral products	E2	8	4	0.3	3.6	0.2	0.4	2.2	8.1	5.0	13.0	0.4	0.5	8.6
33	Primary metal industries	–	23	13	1.4	20.5	1.1	2.3	14.5	46.0	58.3	103.5	3.0	1.7	37.2
331	Blast furnace and basic steel products	–	5	4	0.6	9.1	0.4	0.8	6.2	17.7	26.6	43.8	(D)	0.6	13.2
34	Fabricated metal products	E1	148	56	4.9	66.1	3.9	7.7	47.9	138.5	138.6	275.9	3.8	5.7	98.8
342	Cutlery, hand tools, and hardware	E1	6	5	0.3	2.4	0.2	0.5	1.6	4.3	3.7	7.8	0.1	0.5	5.8
344	Fabricated structural metal products	E1	50	15	1.1	14.9	0.8	1.7	10.0	33.8	31.4	62.6	1.1	1.6	31.5
3444	Sheet metal work	E1	22	5	0.5	5.9	0.3	0.7	3.8	9.8	6.1	15.6	0.6	(NA)	(NA)
346	Metal forgings and stampings	–	11	5	0.5	6.5	0.4	0.7	4.1	10.7	9.0	19.6	0.4	0.4	9.2
347	Metal services, n.e.c.	–	23	6	0.3	3.0	0.2	0.4	1.8	4.9	1.9	6.7	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	E1	36	16	1.0	11.0	0.8	1.6	7.7	26.9	22.6	49.3	1.0	0.9	12.2
3499	Fabricated metal products, n.e.c.	E1	22	8	0.6	7.4	0.5	1.0	5.4	18.1	13.7	31.9	0.6	0.5	7.5
35	Machinery, except electrical	–	236	59	5.2	73.9	3.4	6.7	41.0	160.4	110.4	264.6	4.2	6.0	104.4
354	Metalworking machinery	E3	46	12	0.6	8.8	0.5	1.0	5.9	14.6	5.6	20.4	0.7	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures	E3	31	8	0.4	5.5	0.3	0.6	4.0	8.7	3.1	11.8	0.5	0.3	4.2
355	Special industry machinery	–	57	19	1.5	20.7	0.9	1.8	11.0	40.0	31.6	70.4	1.3	1.8	34.0
3559	Special industry machinery, n.e.c.	E1	17	8	0.5	7.3	0.3	0.6	3.8	13.5	11.4	24.6	0.4	0.6	12.5
356	General industrial machinery	–	31	11	1.0	15.1	0.7	1.5	9.2	31.1	32.5	63.3	(D)	0.9	11.5
359	Miscellaneous machinery, except electrical	E2	80	8	0.7	8.6	0.5	0.9	5.9	14.2	5.9	20.1	0.6	0.7	11.6
3599	Machinery, except electrical, n.e.c.	E2	80	8	0.7	8.6	0.5	0.9	5.9	14.2	5.9	20.1	0.6	(NA)	(NA)
36	Electric and electronic equipment	E1	89	39	8.8	124.8	6.2	12.0	79.7	179.9	129.3	316.6	10.5	8.7	108.3
362	Electrical industrial apparatus	E7	10	6	0.5	5.1	0.4	0.7	3.7	10.8	7.7	18.6	1.0	(NA)	(NA)
364	Electric lighting and wiring equipment	E2	17	9	1.0	9.7	0.7	1.3	5.8	19.2	16.3	35.3	0.6	0.8	11.3
3645	Residential lighting fixtures	E3	12	8	0.9	8.9	0.7	1.2	5.4	17.5	13.3	30.6	(D)	0.7	9.4
367	Electronic components and accessories	E1	32	11	1.2	13.4	0.9	1.8	7.1	21.5	19.8	40.7	1.6	1.2	13.6
3679	Electronic components, n.e.c.	E2	22	6	0.5	5.0	0.4	0.8	3.2	9.1	12.3	21.1	0.8	0.4	4.2
369	Miscellaneous electrical equipment and supplies	–	10	5	0.6	6.6	0.4	0.9	4.2	15.4	10.3	24.9	(D)	0.6	9.3
38	Instruments and related products	E1	31	11	1.4	16.1	0.8	1.7	7.2	31.1	20.5	54.4	(D)	1.5	17.0
39	Miscellaneous manufacturing industries	E3	72	23	1.2	11.7	0.9	1.7	7.1	24.7	22.9	47.3	(D)	1.3	15.8
	Philadelphia, Pa.-N.J., SMSA	–	**7 946**	**2 909**	**451.8**	**6 364.7**	**293.5**	**569.0**	**3 510.6**	**13 429.6**	**18 223.2**	**31 507.5**	**723.4**	**495.7**	**9 189.9**
20	Food and kindred products	–	495	227	39.1	525.8	27.6	54.3	331.6	1 452.2	2 857.6	4 300.6	97.8	40.5	919.3
201	Meat products	E1	96	46	7.4	104.8	5.7	11.3	72.9	246.2	1 027.4	1 268.6	24.4	6.8	131.9
2013	Sausages and other prepared meats	E1	46	25	4.2	61.4	3.1	6.0	41.6	158.8	479.4	636.6	16.2	3.6	76.4
2017	Poultry and egg processing	–	5	5	0.9	9.4	0.7	1.5	6.5	23.6	89.4	113.0	2.3	0.5	12.0
202	Dairy products	–	50	19	2.4	35.3	1.3	2.7	17.4	89.0	250.9	339.0	5.0	4.1	128.7
2026	Fluid milk	–	31	14	1.5	21.3	0.7	1.4	9.1	56.0	169.4	224.7	3.6	2.7	83.3
203	Preserved fruits and vegetables	–	53	25	6.1	72.5	4.7	8.9	49.1	223.4	319.7	543.2	11.6	7.3	157.8
2033	Canned fruits and vegetables	E1	23	10	1.7	14.4	1.5	3.0	11.7	40.9	90.5	131.4	(D)	1.9	37.2
2038	Frozen specialties	–	11	7	1.9	24.0	1.2	2.1	12.7	70.4	58.1	128.7	3.6	2.0	42.0
204	Grain mill products	–	21	7	0.9	11.8	0.6	1.2	8.0	57.8	98.4	157.2	2.6	0.9	19.6
205	Bakery products	–	101	41	9.4	132.1	6.4	12.8	82.0	341.2	223.8	565.0	12.5	8.7	199.3
2051	Bread, cake, and related products	–	84	36	6.5	90.3	3.9	7.6	46.8	205.0	135.5	340.4	(D)	5.6	105.6

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia, Pa.-N.J., SMSA—Con.														
20	Food and kindred products—Con.														
205	Bakery products—Con.														
2052	Cookies and crackers	-	17	5	2.9	41.8	2.5	5.3	35.2	136.2	88.2	224.6	(D)	3.1	93.6
206	Sugar and confectionery products	-	51	26	5.6	66.9	4.3	8.4	46.9	149.8	325.4	473.8	12.5	5.1	117.0
2065	Confectionery products	-	39	18	1.6	13.6	1.3	2.4	9.7	33.7	49.7	82.3	1.1	1.6	23.9
207	Fats and oils	-	14	10	0.7	10.1	0.4	0.9	5.8	45.1	116.2	160.6	1.8	0.6	29.7
208	Beverages	-	48	27	4.2	66.3	2.3	4.5	32.4	200.5	265.9	463.5	19.4	4.9	104.9
2086	Bottled and canned soft drinks	-	27	15	2.1	34.1	0.7	1.5	9.1	77.7	147.2	223.4	4.5	2.3	41.8
2087	Flavoring extracts and sirups, n.e.c.	E2	13	6	0.5	7.0	0.3	0.7	4.0	24.8	27.1	51.1	(D)	(NA)	(NA)
209	Miscellaneous foods and kindred products	-	61	26	2.4	25.9	1.9	3.6	16.9	99.2	230.0	329.7	8.0	2.0	30.4
2099	Food preparations, n.e.c.	E1	36	14	1.1	12.2	0.8	1.7	7.3	44.0	85.3	129.3	4.2	0.8	10.0
22	Textile mill products	E1	254	138	16.9	149.6	14.5	26.7	110.7	298.4	359.3	650.2	10.6	20.5	251.9
2231	Weaving and finishing mills, wool	E4	9	4	0.3	2.1	0.2	0.3	1.5	3.1	1.4	4.5	0.1	0.7	7.7
2241	Narrow fabric mills	E1	10	5	0.3	2.7	0.3	0.6	2.1	5.7	5.2	10.8	0.2	0.6	5.8
225	Knitting mills	E1	92	56	9.0	75.1	7.8	13.5	55.4	155.6	181.6	332.1	5.3	10.6	122.4
2253	Knit outerwear mills	E2	39	32	6.4	52.6	5.5	9.3	37.5	105.7	119.9	221.1	3.3	5.9	70.1
2257	Circular knit fabric mills	E6	15	7	0.3	2.8	0.2	0.5	2.1	4.1	3.4	7.7	0.2	1.1	16.3
2269	Finishing plants, n.e.c.	-	18	12	0.8	7.1	0.7	1.3	5.1	11.0	17.6	28.3	0.8	0.9	9.7
228	Yarn and thread mills	E1	28	23	1.9	15.3	1.7	3.3	12.3	26.9	38.0	64.8	1.5	1.7	16.2
2281	Yarn mills, except wool	E4	8	5	0.6	5.3	0.6	1.1	4.4	11.3	15.4	26.3	(D)	(NA)	(NA)
2283	Wool yarn mills	-	8	7	0.3	3.1	0.3	0.6	2.4	4.8	6.7	11.4	(D)	0.6	6.1
229	Miscellaneous textile goods	E1	51	18	2.2	23.8	1.7	3.4	15.7	45.5	51.5	96.6	2.1	2.5	37.0
23	Apparel and other textile products	-	624	325	33.6	275.9	28.7	49.8	201.8	546.8	553.7	1 078.0	8.0	46.1	465.7
2311	Men's and boys' suits and coats	-	94	66	12.0	111.6	10.3	18.5	85.1	202.5	171.8	366.2	2.3	17.2	193.5
233	Women's and misses' outerwear	E1	201	117	10.2	76.7	8.5	14.0	52.2	190.0	202.8	377.8	3.0	12.5	116.5
2331	Women's and misses' blouses and waists	-	20	16	1.5	13.1	1.1	1.6	7.0	50.8	57.9	97.4	0.7	2.3	30.9
2335	Women's and misses' dresses	E2	106	51	4.3	30.5	3.8	6.5	22.2	60.1	46.5	105.4	1.1	6.1	47.4
2337	Women's and misses' suits and coats	-	33	26	2.0	15.5	1.5	2.5	10.2	39.3	46.2	84.3	0.7	1.7	11.0
2339	Women's and misses' outerwear, n.e.c.	-	42	24	2.4	17.6	2.1	3.4	12.8	39.8	52.1	90.7	0.4	2.5	27.2
234	Women's and children's undergarments	-	11	8	0.8	5.4	0.7	1.3	3.8	11.9	11.1	23.4	0.1	1.3	10.7
236	Children's outerwear	-	31	24	2.5	18.7	2.2	3.8	14.7	38.6	28.5	69.1	0.3	3.2	31.7
2361	Children's dresses and blouses	-	19	13	1.5	10.2	1.3	2.3	7.9	27.6	20.9	48.1	0.1	1.9	19.8
2369	Children's outerwear, n.e.c.	-	7	7	0.7	5.2	0.5	0.8	4.0	4.2	5.5	12.3	(D)	0.4	3.1
238	Miscellaneous apparel and accessories	E1	24	8	0.8	5.7	0.7	1.3	4.6	9.6	11.5	20.9	0.7	1.3	12.3
2389	Apparel and accessories, n.e.c.	E1	11	4	0.4	3.2	0.4	0.7	2.6	5.4	7.7	12.8	(D)	0.5	4.2
239	Miscellaneous fabricated textile products	E1	165	46	3.6	30.5	3.1	5.5	21.1	53.8	54.8	107.9	1.1	4.7	42.7
2391	Curtains and draperies	E1	34	7	0.5	3.6	0.4	0.7	2.4	5.6	6.8	12.2	0.1	0.7	5.7
2392	House furnishings, n.e.c.	E2	35	11	0.6	4.3	0.5	1.0	3.0	8.4	11.6	20.0	0.2	0.7	5.5
2395	Pleating and stitching	E1	17	3	0.3	2.6	0.3	0.3	1.7	4.8	2.2	7.0	(D)	(NA)	(NA)
2396	Automotive and apparel trimmings	-	26	9	0.6	6.3	0.5	1.0	4.6	11.3	13.7	25.2	0.2	0.9	11.6
2399	Fabricated textile products, n.e.c.	-	24	11	1.2	11.2	1.0	2.0	7.6	18.8	16.4	34.4	0.4	1.6	12.5
25	Furniture and fixtures	-	229	80	8.0	86.6	6.3	12.2	60.7	171.2	170.9	342.3	7.4	8.7	119.3
251	Household furniture	E1	113	35	3.2	30.0	2.7	5.1	20.9	53.6	73.2	128.2	1.2	3.2	43.6
2511	Wood household furniture	E3	48	7	0.6	4.9	0.5	1.0	3.7	10.1	11.4	20.0	0.4	0.4	4.3
2512	Upholstered household furniture	E3	23	5	0.4	3.5	0.3	0.6	2.5	5.4	5.5	10.9	0.2	0.5	5.8

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanetion of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Weges (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia, Pa.-N.J., SMSA—Con.													
25	Furniture and fixtures—Con.													
251	Household furniture—Con.													
2514	Metal household furniture	E1	19	12	1.6	14.5	1.3	2.6	10.4	21.5	33.7	58.5	0.2	1.9	24.8
2515	Mettresses and bedsprings	–	18	9	0.5	5.7	0.4	0.7	3.4	14.3	18.9	32.8	0.2	0.5	8.4
252	Office furniture	–	17	7	1.6	20.9	1.3	2.4	14.1	42.8	32.7	74.6	1.2	1.9	27.1
254	Pertitions and fixtures	–	62	26	2.2	25.8	1.7	3.5	19.5	55.7	50.2	105.7	4.7	2.7	37.4
2541	Wood partitions and fixtures	–	40	12	0.6	6.8	0.5	0.9	4.9	12.0	10.6	22.5	(D)	1.0	15.1
2542	Metal partitions and fixtures	–	22	14	1.6	18.9	1.2	2.6	14.6	43.7	39.6	83.2	(D)	1.7	22.3
259	Miscellaneous furniture and fixtures	E1	31	10	0.8	8.8	0.5	1.0	5.4	16.8	12.6	29.2	(D)	0.6	8.2
2599	Furniture and fixtures, n.e.c.	–	22	9	0.7	8.3	0.5	0.9	5.1	15.8	11.6	27.3	0.3	0.5	7.3
26	Paper and allied products	–	241	134	17.4	244.3	13.5	26.0	168.9	621.4	793.2	1 409.0	34.3	18.8	385.6
264	Miscellaneous converted paper products	–	112	45	7.4	100.8	5.6	10.0	67.6	372.7	299.7	668.4	12.4	6.0	169.2
2641	Paper coating and glazing	–	25	11	1.6	24.5	1.1	2.4	15.2	84.9	86.9	169.4	2.3	0.9	37.8
2643	Bags, except textile bags	E3	14	6	1.3	16.8	0.9	1.9	10.7	36.6	52.3	88.3	1.8	1.2	24.3
2649	Converted paper products, n.e.c.	–	29	13	0.9	10.1	0.6	1.2	5.9	25.1	29.9	54.8	1.9	0.9	14.3
265	Paperboard conteiners and boxes	–	107	70	7.0	92.1	5.4	10.7	61.8	159.8	273.3	432.1	8.8	8.3	128.7
2651	Folding paperboard boxes	–	34	21	2.3	29.5	1.9	3.7	20.2	52.1	76.0	126.6	3.7	2.5	35.6
2652	Setup paperboard boxes	–	11	10	0.6	6.2	0.6	1.0	4.7	9.2	8.7	17.7	0.7	0.9	10.2
2653	Corrugated and solid fiber boxes	–	39	26	2.9	43.2	2.1	4.2	26.9	74.4	119.6	194.3	2.9	3.5	59.1
2654	Sanitary food containers	–	8	5	0.5	5.7	0.4	0.7	4.1	9.5	40.3	49.8	0.8	0.7	14.0
2655	Fiber cans, drums, and similar products	–	15	8	0.6	7.5	0.5	1.1	5.9	14.8	28.7	43.7	0.8	0.6	9.8
27	Printing and publishing	–	1 131	254	37.5	487.1	22.0	39.6	265.2	1 076.1	639.9	1 718.1	53.6	37.6	681.4
2711	Newspapers	–	94	29	10.0	128.0	4.0	6.2	50.5	225.7	97.4	323.1	21.6	10.0	163.4
2721	Periodicals	–	53	14	3.4	40.9	0.6	1.2	6.0	248.8	151.8	400.4	1.0	3.1	129.0
273	Books	–	60	18	3.7	49.2	2.1	3.9	24.3	120.6	67.6	186.6	2.5	3.5	61.1
2731	Book publishing	–	29	8	2.6	35.5	1.1	2.0	13.9	95.4	47.9	141.8	1.4	2.6	50.7
2732	Book printing	–	31	10	1.2	13.6	1.0	1.9	10.4	25.1	19.7	44.8	1.2	0.9	10.5
275	Commercial printing	E1	690	111	12.4	169.8	9.5	17.3	118.6	283.1	238.4	525.7	19.8	14.1	226.3
2751	Commercial printing, letterpress	E2	370	31	3.6	39.3	2.7	4.9	25.6	73.5	53.3	126.9	3.4	4.2	65.3
2752	Commercial printing, lithographic	E1	281	69	5.9	88.7	4.5	8.3	60.8	140.6	106.1	251.8	6.2	7.0	114.4
2753	Engraving and plate printing	–	28	6	0.6	7.4	0.5	0.9	5.1	14.4	8.4	22.3	5.0	0.4	7.0
2754	Commercial printing, gravure	–	11	5	2.2	34.4	1.8	3.2	27.2	54.6	70.6	124.8	5.3	2.5	39.6
2761	Manifold business forms	–	31	19	1.4	19.3	1.0	2.2	12.6	52.2	37.3	89.1	2.7	1.2	21.5
278	Blankbooks and bookbinding	–	57	27	2.2	23.1	1.8	3.4	17.3	40.5	14.5	54.8	1.6	2.2	24.7
2782	Blankbooks and looseleaf binders	–	17	11	1.0	10.3	0.8	1.5	7.6	20.8	9.5	30.2	1.2	0.7	9.8
2789	Bookbinding and related work	E1	40	16	1.2	12.7	1.0	1.9	9.7	19.7	4.9	24.6	0.4	1.4	15.0
279	Printing trade services	–	97	26	3.0	42.6	2.3	4.2	31.3	69.2	16.0	84.8	3.6	2.5	39.3
2791	Typesetting	–	74	19	2.3	28.6	1.8	3.3	21.2	49.3	10.0	58.9	2.8	1.9	27.9
2795	Lithographic platemaking services	–	15	5	0.6	12.4	0.4	0.8	8.9	17.4	5.4	22.7	0.6	0.3	5.5
28	Chemicals and allied products	–	347	148	29.3	498.0	17.4	34.6	254.4	1 998.6	1 685.3	3 673.3	97.2	30.5	1 240.7
281	Industrial inorganic chemicals	–	33	16	1.8	28.1	1.3	2.6	18.6	104.1	146.3	248.6	18.6	2.2	61.2
2819	Industrial inorganic chemicals, n.e.c.	–	10	7	0.7	11.5	0.5	1.1	7.8	45.3	74.4	119.5	5.9	1.2	31.8
282	Plastics materials and synthetics	–	14	13	3.5	63.2	2.1	4.7	33.8	224.4	338.1	564.7	16.0	4.3	144.0
283	Drugs	–	42	21	12.1	228.4	6.6	12.8	103.8	1 076.6	401.3	1 468.7	27.4	10.8	711.1
2834	Pharmaceutical preparations	–	34	17	11.6	220.8	6.3	12.1	99.3	1 058.5	390.3	1 440.0	26.5	10.5	703.6

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia, Pa.-N.J., SMSA—Con.														
28	Chemicals and allied products—Con.														
284	Soaps, cleaners, and toilet goods	-	82	27	2.1	27.7	1.2	2.4	14.2	103.2	142.6	245.7	3.2	2.4	58.1
2841	Soap and other detergents	-	23	10	0.8	10.5	0.6	1.1	6.1	34.5	51.9	86.5	1.0	1.0	25.6
2842	Polishes and sanitation goods	-	29	8	0.6	7.8	0.4	0.7	3.9	34.4	41.9	75.4	0.7	0.6	16.4
2843	Surface active agents	-	11	8	0.4	7.0	0.2	0.5	3.4	21.8	45.5	67.5	1.5	(NA)	(NA)
2851	Paints and allied products	-	46	18	2.5	38.8	1.6	3.0	20.4	115.0	139.1	253.7	3.6	3.1	86.8
286	Industrial organic chemicals	-	24	12	3.8	64.9	2.4	4.6	37.7	245.0	373.8	623.3	21.7	2.9	86.3
287	Agricultural chemicals	-	12	4	0.5	6.2	0.4	0.7	5.2	23.0	28.4	49.6	1.6	0.9	12.1
289	Miscellaneous chemical products	-	94	37	3.1	40.6	1.9	3.7	20.7	107.4	115.7	219.0	5.0	3.8	81.0
2891	Adhesives and sealants	-	21	11	0.6	8.2	0.4	0.7	4.0	23.8	37.9	61.5	1.0	(NA)	(NA)
2899	Chemical preparations, n.e.c.	-	52	14	1.6	19.1	0.9	1.9	10.1	60.2	52.2	108.5	3.4	2.2	53.0
295	Paving and roofing materials	-	29	7	0.7	10.4	0.5	1.1	6.8	26.8	48.0	74.3	3.3	0.6	20.7
2951	Paving mixtures and blocks	-	24	4	0.3	4.7	0.2	0.5	3.1	13.1	24.1	37.2	1.9	(NA)	(NA)
2952	Asphalt felts and coatings	-	5	3	0.4	5.7	0.3	0.6	3.7	13.7	23.9	37.1	1.3	(NA)	(NA)
299	Miscellaneous petroleum and coal products	-	24	12	0.9	17.3	0.3	0.6	3.5	35.7	50.2	85.8	1.6	1.0	28.6
30	Rubber and miscellaneous plastics products	-	280	118	15.9	211.9	12.5	24.5	150.9	469.9	541.6	993.5	28.1	16.1	346.3
3011	Tires and inner tubes	-	5	3	5.2	83.3	4.2	8.2	65.6	208.5	280.7	470.5	7.7	5.3	190.5
3079	Miscellaneous plastics products	-	242	100	9.5	112.8	7.2	14.3	73.6	233.6	240.7	475.1	19.4	8.9	126.7
32	Stone, clay, and glass products	-	309	114	12.8	170.4	9.9	19.7	119.9	385.4	348.9	736.8	26.1	15.0	290.3
3231	Products of purchased glass	-	45	18	1.7	20.8	1.4	2.6	15.4	38.3	44.8	83.2	1.7	1.6	25.8
325	Structural clay products	-	13	7	1.8	22.1	1.4	2.9	15.9	41.9	29.0	71.3	(D)	2.2	36.7
327	Concrete, gypsum, and plaster products	-	121	40	2.6	35.9	1.9	4.0	24.3	72.2	86.8	159.0	6.9	3.4	77.8
3272	Concrete products, n.e.c.	E2	49	18	1.0	12.5	0.8	1.6	8.4	24.7	16.1	41.2	1.2	1.6	33.2
3273	Ready-mixed concrete	-	46	15	0.9	13.5	0.7	1.5	9.2	25.0	36.0	60.9	2.5	0.8	20.1
3275	Gypsum products	-	5	3	0.3	5.1	0.2	0.5	3.6	11.1	22.1	33.2	1.7	0.5	13.5
329	Miscellaneous nonmetallic mineral products	-	97	45	5.7	76.9	4.4	8.3	52.4	201.3	161.9	363.9	14.0	6.0	113.6
3291	Abrasive products	-	19	6	0.8	9.7	0.6	1.0	5.4	18.7	11.8	30.8	0.5	1.0	15.4
3293	Gaskets, packing, and sealing devices	-	21	11	0.9	11.7	0.6	1.3	7.0	21.0	15.0	36.7	1.0	1.4	20.1
3295	Minerals, ground or treated	-	17	7	0.3	4.6	0.3	0.5	3.3	11.3	12.5	23.9	1.5	(NA)	(NA)
3296	Mineral wool	-	7	5	2.1	30.6	1.7	3.6	24.4	114.0	73.3	187.7	(D)	1.7	49.9
3297	Nonclay refractories	-	6	5	0.6	9.5	0.5	0.9	6.5	19.3	25.4	43.8	(D)	0.6	3.7
33	Primary metal industries	-	185	89	24.6	410.4	18.0	34.2	284.7	720.8	1 217.2	1 953.1	42.7	29.5	567.4
331	Blast furnace and basic steel products	-	46	26	16.9	310.7	12.1	23.0	217.1	474.1	896.1	1 384.9	29.2	20.4	415.5
3315	Steel wire and related products	E1	10	3	0.4	4.9	0.3	0.6	3.8	11.0	20.2	30.5	0.2	(NA)	(NA)
3317	Steel pipe and tubes	-	10	8	1.5	20.9	1.1	2.2	15.1	26.4	28.3	56.0	1.2	(NA)	(NA)
332	Iron and steel foundries	-	24	15	1.8	21.9	1.4	2.8	16.8	62.5	48.5	111.7	(D)	2.0	33.5
3341	Secondary nonferrous metals	E1	21	5	0.5	7.7	0.4	0.7	4.7	18.5	44.1	59.0	2.4	0.9	17.9
335	Nonferrous rolling and drawing	-	21	12	2.3	27.4	1.5	3.0	15.6	71.2	153.0	229.3	5.1	3.0	42.3
3357	Nonferrous wire drawing and insulating	-	8	5	0.7	8.3	0.5	1.0	5.9	12.4	30.3	48.4	(D)	1.2	11.0
336	Nonferrous foundries	-	35	15	2.0	24.8	1.6	3.0	19.1	43.2	30.2	72.6	1.0	2.0	33.1
3361	Aluminum foundries	-	18	9	1.2	16.3	1.1	1.9	13.4	31.1	18.0	48.4	0.6	1.3	23.6
3362	Brass, bronze, and copper foundries	-	11	4	0.6	7.0	0.4	0.7	4.4	9.9	10.5	20.3	0.3	0.6	7.3
339	Miscellaneous primary metal products	-	35	15	1.1	17.4	0.8	1.6	11.1	50.5	40.7	90.0	2.9	(NA)	(NA)
3398	Metal heat treating	-	19	9	0.5	6.0	0.4	0.7	4.0	11.3	3.8	15.1	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia, Pa.-N.J., SMSA—Con.													
33	Primary metal industries—Con.													
339	Miscellaneous primary metal products—Con.													
3399	Primary metal products, n.e.c.	-	16	6	0.7	11.3	0.5	0.9	7.1	39.2	36.9	74.9	(D)	0.4	13.1
34	Fabricated metal products	-	933	338	37.0	508.0	28.3	56.0	352.2	1 043.9	1 035.5	2 081.6	53.0	43.0	723.4
341	Metal cans and shipping containers	-	18	16	3.1	49.0	2.7	5.3	41.0	134.9	205.6	335.6	3.7	3.7	80.2
3411	Metal cans	-	13	12	2.6	42.7	2.3	4.6	36.6	119.8	180.7	296.1	(D)	(NA)	(NA)
3412	Metal barrels, drums, and pails	-	5	4	0.5	6.3	0.4	0.7	4.4	15.1	24.9	39.5	(D)	(NA)	(NA)
3429	Hardware, n.e.c.	-	32	13	1.1	12.4	0.8	1.6	8.3	29.8	28.5	58.9	0.8	1.4	21.9
343	Plumbing and heating, except electric	E1	26	9	1.0	13.2	0.7	1.3	7.2	25.2	27.7	52.9	1.2	1.8	23.7
3433	Heating equipment, except electric	-	17	7	0.9	11.1	0.5	1.0	5.6	21.6	24.9	46.6	1.0	1.5	21.0
344	Fabricated structural metal products	E1	361	121	9.6	123.9	6.9	13.4	76.5	243.6	276.1	520.9	11.0	11.2	179.1
3441	Fabricated structural metal	-	68	25	1.8	25.0	1.3	2.6	16.1	46.6	61.4	109.2	2.8	2.8	45.9
3442	Metal doors, sash, and trim	E1	47	15	1.0	9.4	0.8	1.5	5.8	18.4	28.1	45.9	1.1	1.3	14.6
3443	Fabricated plate work (boiler shops)	E1	55	32	3.0	44.5	2.1	3.9	25.1	95.1	92.9	189.9	3.1	2.9	61.2
3444	Sheet metal work	-	112	32	3.0	34.0	2.2	4.1	22.5	63.0	70.7	132.7	3.5	3.0	38.3
3446	Architectural metal work	E1	66	11	0.6	8.7	0.5	1.0	5.4	14.8	12.4	27.2	0.3	(NA)	(NA)
345	Screw machine products, bolts, etc.	-	68	28	3.8	49.0	3.0	6.0	37.5	108.3	70.3	176.9	12.9	3.7	65.3
3451	Screw machine products	-	42	11	0.7	8.6	0.6	1.1	6.3	18.0	11.3	29.0	(D)	0.5	7.4
3452	Bolts, nuts, rivets, and washers	-	26	17	3.0	40.4	2.4	4.9	31.2	90.3	59.0	147.9	(D)	3.2	57.9
346	Metal forgings and stampings	-	81	35	7.1	119.9	5.6	11.3	89.6	224.0	211.3	438.7	7.1	9.6	170.8
3469	Metal stampings, n.e.c.	-	65	22	1.8	22.8	1.4	2.9	15.8	42.3	62.0	103.7	2.8	2.2	31.1
347	Metal services, n.e.c.	-	128	25	1.8	21.6	1.4	2.9	14.4	40.1	35.9	76.0	2.9	2.0	29.9
3471	Plating and polishing	E1	71	11	0.8	8.9	0.6	1.3	5.7	14.4	8.1	22.3	0.9	1.1	13.5
3479	Metal coating and allied services	-	57	14	1.0	12.7	0.7	1.6	8.7	25.7	27.8	53.7	2.0	0.9	16.4
349	Miscellaneous fabricated metal products	-	189	79	7.9	99.5	6.1	11.7	63.5	200.2	155.4	354.3	11.9	6.8	106.6
3494	Valves and pipe fittings	-	29	18	2.8	39.8	1.9	3.5	22.1	82.8	53.4	136.7	4.5	3.1	51.8
3495	Wire springs	-	9	6	0.5	5.2	0.4	0.8	3.8	8.5	9.9	18.3	0.7	(NA)	(NA)
3496	Miscellaneous fabricated wire products	E1	37	13	1.0	10.3	0.8	1.7	7.0	19.5	17.5	36.8	1.5	0.9	11.6
3498	Fabricated pipe and fittings	-	25	12	0.9	12.3	0.7	1.3	8.2	26.0	18.1	43.7	(D)	0.3	4.5
3499	Fabricated metal products, n.e.c.	-	84	27	2.2	25.1	1.8	3.6	18.0	49.8	44.7	93.5	2.3	1.6	21.5
35	Machinery, except electrical	-	1 183	308	44.8	661.8	27.9	59.4	363.7	1 176.1	945.2	2 093.8	58.0	45.3	921.9
3535	Conveyors and conveying equipment	-	19	10	1.5	22.2	0.9	1.6	10.6	48.3	35.3	81.5	0.7	1.1	18.2
354	Metalworking machinery	E1	246	44	4.3	70.3	3.3	7.2	50.9	122.5	55.9	175.9	6.3	3.6	61.2
3542	Machine tools, metal forming types	-	12	4	0.6	10.5	0.4	0.9	6.4	22.1	15.0	36.4	1.2	0.6	7.1
3544	Special dies, tools, jigs, and fixtures	E1	183	36	3.3	53.6	2.6	5.6	40.5	89.2	34.7	122.0	4.7	2.5	47.4
355	Special industry machinery	-	140	50	5.3	78.8	2.9	6.1	38.5	135.5	120.7	254.6	5.0	5.8	95.3
3551	Food products machinery	-	16	7	0.5	7.3	0.3	0.6	3.5	13.9	9.8	24.0	0.3	0.6	9.6
3554	Paper industries machinery	-	15	7	1.3	20.5	0.7	1.5	10.7	35.2	24.1	58.7	1.4	1.0	19.1
3559	Special industry machinery, n.e.c.	-	63	21	2.4	35.8	1.4	2.6	17.0	64.6	68.1	129.6	2.3	1.7	30.0
356	General industrial machinery	-	163	66	9.2	138.1	6.0	12.5	84.9	283.4	203.2	481.0	12.4	9.1	155.8
3564	Blowers and fans	-	14	6	0.5	5.7	0.3	0.6	3.3	13.9	8.3	21.8	(D)	0.5	7.4
3567	Industrial furnaces and ovens	-	26	14	1.2	18.0	0.6	1.2	7.8	35.4	34.7	69.1	1.5	1.1	18.6
357	Office and computing machines	-	49	29	7.1	93.9	3.1	5.9	32.0	171.1	120.7	283.2	13.7	4.0	107.8
3573	Electronic computing equipment	-	39	24	6.1	79.7	2.6	5.0	26.2	143.3	104.5	239.8	12.6	3.6	99.0
358	Refrigeration and service machinery	-	58	28	3.2	36.2	2.1	8.1	19.4	78.5	74.7	151.4	1.9	(NA)	(NA)
3585	Refrigeration and heating equipment	E1	28	14	1.8	17.0	1.2	6.3	9.7	39.6	38.7	76.7	1.0	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia, Pa.-N.J., SMSA—Con.														
35	Machinery, except electrical—Con.														
358	Refrigeration and service machinery—Con.														
3589	Service industry machinery, n.e.c.	–	23	10	0.6	7.9	0.4	0.7	3.6	15.0	15.3	30.3	0.4	0.8	11.7
359	Miscellaneous machinery, except electrical	E1	460	64	5.3	69.0	4.2	8.2	48.0	124.5	69.6	192.3	7.6	5.4	90.7
36	Electric and electronic equipment	–	443	181	36.5	498.0	25.5	48.2	299.0	956.7	889.8	1 828.9	39.7	48.6	875.2
361	Electric distributing equipment	–	31	13	7.7	117.9	5.1	9.4	73.2	230.6	112.0	340.8	5.7	(NA)	(NA)
3613	Switchgear and switchboard apparatus	–	22	10	7.3	114.0	4.8	8.8	70.4	222.7	104.9	325.9	5.5	(NA)	(NA)
362	Electrical industrial apparatus	–	45	19	2.5	29.3	1.9	3.7	17.2	65.5	39.9	101.1	2.5	2.2	31.5
3621	Motors and generators	–	11	9	1.5	15.9	1.2	2.4	10.0	32.9	18.1	48.8	0.9	1.1	13.5
3622	Industrial controls	E1	23	6	0.6	6.8	0.4	0.9	4.1	16.9	9.7	24.7	1.2	0.3	4.0
364	Electric lighting and wiring equipment	–	92	40	5.7	61.3	4.0	7.2	33.4	144.6	180.0	322.5	3.9	6.6	112.5
3643	Current-carrying wiring devices	E1	16	8	1.0	9.5	0.8	1.5	6.7	23.2	19.2	42.1	0.3	1.3	14.1
3644	Noncurrent-carrying wiring devices	E1	10	7	0.8	10.7	0.7	1.2	6.9	24.0	30.8	53.7	0.6	0.4	9.0
3645	Residential lighting fixtures	–	41	16	2.4	25.9	1.5	2.4	10.3	60.9	53.1	114.6	0.9	2.8	54.0
3646	Commercial lighting fixtures	–	11	5	1.3	13.1	1.0	1.7	8.4	32.9	69.5	101.2	1.5	1.9	33.4
3652	Phonograph records and prerecorded tape	–	21	6	1.8	18.6	1.5	3.5	15.1	29.1	40.0	68.3	2.2	1.6	17.0
366	Communication equipment	–	72	34	9.4	164.4	5.7	10.7	91.5	272.7	194.2	454.0	11.4	17.3	310.6
367	Electronic components and accessories	–	134	48	6.7	76.6	5.1	9.9	49.2	156.4	251.8	411.2	10.2	4.6	56.7
3674	Semiconductors and related devices	–	14	5	0.8	10.6	0.4	1.0	5.3	22.2	15.1	37.7	(D)	0.7	8.4
3676	Electronic resistors	–	7	4	0.8	7.7	0.7	1.3	5.7	15.3	5.3	21.3	0.7	1.2	13.8
3677	Electronic coils and transformers	–	5	3	0.7	5.9	0.6	1.2	4.3	9.7	2.9	12.0	0.1	(NA)	(NA)
3678	Electronic connectors	–	5	3	0.3	2.7	0.2	0.4	1.8	5.9	4.2	10.3	(D)	(NA)	(NA)
3679	Electronic components, n.e.c.	–	96	29	3.8	46.7	3.0	5.6	30.3	98.7	220.6	321.4	5.0	2.0	25.9
369	Miscellaneous electrical equipment and supplies	–	35	17	2.1	24.5	1.6	3.1	16.4	42.8	48.5	92.5	1.6	2.2	44.8
3694	Engine electrical equipment	E1	13	7	0.8	5.5	0.6	1.3	3.4	11.5	15.7	26.0	0.4	0.5	5.0
37	Transportation equipment	–	134	46	23.3	412.5	13.3	28.4	202.7	628.1	510.1	1 154.6	34.1	22.8	521.7
371	Motor vehicles and equipment	–	74	24	6.5	100.1	5.3	11.0	78.0	161.1	268.3	427.5	8.0	6.2	151.0
3724	Aircraft engines and engine parts	–	8	4	0.4	6.3	0.3	0.6	3.8	11.6	6.8	18.1	0.6	0.3	3.7
3728	Aircraft equipment, n.e.c.	E1	8	3	0.4	6.8	0.3	0.7	5.0	11.2	3.7	14.5	0.4	0.5	8.0
38	Instruments and related products	–	263	96	19.5	280.0	11.1	22.9	129.3	595.9	277.6	853.3	23.3	17.8	317.4
3811	Engineering and scientific instruments	E1	29	11	1.2	15.5	0.7	1.7	8.3	34.1	17.8	50.7	(D)	1.5	20.9
382	Measuring and controlling devices	–	88	40	13.8	212.3	7.3	15.3	92.5	432.8	172.1	589.9	13.6	12.4	226.0
3823	Process control instruments	–	22	15	9.9	160.8	4.6	9.8	60.7	323.7	116.7	431.2	10.1	8.8	168.0
3832	Optical instruments and lenses	–	20	9	1.0	13.3	0.7	1.5	7.3	38.5	19.0	56.7	(D)	0.6	15.5
384	Medical instruments and supplies	E1	88	26	2.5	27.1	1.7	3.2	15.2	56.1	34.4	87.8	2.0	2.6	42.6
3841	Surgical and medical instruments	E2	27	9	0.7	8.5	0.4	0.8	4.0	18.7	10.4	28.4	0.8	0.6	7.6
3843	Dental equipment and supplies	–	25	9	0.8	9.4	0.6	1.0	6.0	18.5	9.9	27.0	0.7	0.9	17.6
3861	Photographic equipment and supplies	E2	21	5	0.5	8.0	0.3	0.7	4.0	27.7	29.9	57.7	1.4	0.5	8.4
3873	Watches, clocks, and watchcases	–	7	4	0.3	2.8	0.2	0.5	1.5	4.6	3.5	7.6	0.3	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	347	91	9.8	127.5	7.6	13.7	73.2	288.6	327.5	616.1	18.8	9.7	204.7
391	Jewelry, silverware, and plated ware	E1	59	8	0.7	7.4	0.6	1.1	4.7	17.5	28.1	45.3	0.3	0.5	9.8
3944	Games, toys, and children's vehicles	–	16	5	0.6	6.3	0.5	0.8	3.1	17.7	32.0	49.0	(D)	(NA)	(NA)
3949	Sporting and athletic goods, n.e.c.	–	23	9	0.7	7.4	0.6	1.2	5.4	17.1	18.4	34.7	(D)	1.2	19.6
396	Costume jewelry and notions	–	15	6	0.5	4.0	0.5	0.8	2.7	7.2	6.1	13.3	(D)	0.4	4 4
399	Miscellaneous manufactures	–	194	55	6.2	93.4	4.6	8.3	51.5	211.6	222.7	436.2	14.3	5.3	140.3

See footnotes at end of table.

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	Philadelphia, Pa.-N.J., SMSA—Con.														
39	Miscellaneous manufacturing industries—Con.														
399	Miscellaneous manufactures—Con.														
3991	Brooms and brushes	-	11	5	0.4	4.3	0.2	0.4	1.7	5.3	5.8	10.5	0.1	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	-	97	24	3.8	62.1	2.7	4.6	30.8	144.8	138.6	283.6	(D)	2.9	77.5
	Trenton SMSA	-	**488**	**185**	**35.9**	**538.4**	**20.7**	**41.1**	**262.7**	**885.4**	**743.4**	**1 626.2**	**39.7**	**35.6**	**608.0**
20	Food and kindred products	-	29	12	1.0	12.9	0.6	1.3	7.4	55.5	67.9	122.5	2.0	1.1	32.2
205	Bakery products	E1	9	3	0.3	1.9	0.1	0.1	0.6	3.1	2.1	5.1	(Z)	0.3	3.5
2051	Bread, cake, and related products	E1	9	3	0.3	1.9	0.1	0.1	0.6	3.1	2.1	5.1	(Z)	(NA)	(NA)
208	Beverages	-	6	5	0.5	7.9	0.4	0.9	5.3	45.7	50.3	95.2	(D)	0.4	23.0
23	Apparel and other textile products	E1	14	8	0.6	5.2	0.5	0.9	3.8	14.2	11.8	25.9	(D)	1.0	12.2
26	Paper and allied products	-	11	5	0.6	7.7	0.4	0.8	4.9	14.5	15.9	30.4	1.6	0.8	11.1
27	Printing and publishing	E1	106	23	2.3	29.3	1.2	2.2	15.3	69.1	29.3	97.8	2.8	1.8	36.9
2711	Newspapers	-	14	3	0.9	10.0	0.3	0.5	3.7	19.6	6.7	26.3	(D)	(NA)	(NA)
273	Books	E1	16	4	0.4	4.5	0.2	0.4	2.6	11.3	5.1	16.2	0.6	(NA)	(NA)
2741	Miscellaneous publishing	-	11	4	0.4	6.0	0.2	0.4	3.6	21.0	4.2	25.1	(D)	(NA)	(NA)
275	Commercial printing	E2	42	6	0.4	5.3	0.3	0.6	3.5	10.4	7.4	17.5	0.9	0.5	7.8
2752	Commercial printing, lithographic	E2	21	4	0.3	3.6	0.2	0.4	2.3	7.9	5.6	13.2	0.7	0.4	6.6
28	Chemicals and allied products	-	22	14	1.7	22.3	0.9	1.7	9.5	75.1	69.0	139.6	(D)	1.5	64.5
283	Drugs	-	5	5	0.9	12.7	0.5	0.9	5.5	59.3	27.3	84.9	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	29	19	3.2	43.5	2.4	4.7	28.0	68.5	91.2	160.7	2.0	4.1	60.3
3041	Rubber and plastics hose and belting	-	6	5	1.5	23.1	1.0	1.9	13.3	29.7	43.2	72.4	0.5	1.6	23.3
3079	Miscellaneous plastics products	-	16	7	0.7	9.3	0.5	1.1	6.1	17.3	25.7	44.2	1.2	1.6	25.6
32	Stone, clay, and glass products	-	40	19	2.3	27.5	1.8	3.7	20.1	54.5	37.9	92.9	2.1	2.3	45.1
35	Machinery, except electrical	-	64	16	5.4	71.3	3.8	7.9	46.4	155.5	169.1	332.6	4.5	5.3	78.6
354	Metalworking machinery	E2	28	4	0.3	3.7	0.2	0.4	2.7	5.9	1.8	7.7	0.2	(NA)	(NA)
358	Refrigeration and service machinery	-	5	4	2.3	28.4	1.7	3.2	19.4	52.1	60.3	111.3	(D)	2.4	35.5
3585	Refrigeration and heating equipment	-	5	4	2.3	28.4	1.7	3.2	19.4	52.1	60.3	111.3	(D)	2.4	35.5
36	Electric and electronic equipment	-	21	13	3.9	50.9	3.1	5.8	35.6	101.6	63.1	155.8	5.1	5.7	88.6
364	Electric lighting and wiring equipment	-	5	5	1.9	19.5	1.6	3.1	14.3	40.0	27.4	61.1	(D)	3.0	34.0
38	Instruments and related products	-	21	7	1.0	12.8	0.3	0.5	3.7	30.4	14.2	45.1	1.1	0.3	12.3
39	Miscellaneous manufacturing industries	-	29	9	0.7	7.7	0.5	1.1	5.3	27.6	21.5	50.2	0.5	0.5	23.6
	Vineland-Millville-Bridgeton SMSA	-	**254**	**104**	**18.9**	**223.2**	**15.5**	**29.3**	**167.8**	**500.9**	**432.0**	**927.1**	**37.1**	**22.5**	**313.6**
20	Food and kindred products	-	42	19	2.3	24.4	1.9	3.3	18.1	91.8	121.9	213.0	6.1	3.4	46.5
203	Preserved fruits and vegetables	-	14	8	1.6	18.0	1.3	2.2	13.8	75.7	101.4	176.6	4.8	2.6	36.1
209	Miscellaneous foods and kindred products	-	15	7	0.4	3.2	0.3	0.5	2.1	5.8	14.5	20.3	1.0	(NA)	(NA)
23	Apparel and other textile products	-	26	17	2.3	16.6	2.1	3.7	14.3	26.1	18.5	44.0	(D)	3.5	24.7
2311	Men's and boys' suits and coats	-	8	7	1.5	11.5	1.4	2.5	10.1	19.7	11.4	29.3	(D)	1.5	8.3
233	Women's and misses' outerwear	-	8	6	0.5	3.2	0.5	0.8	2.8	4.2	1.4	5.6	(D)	0.7	5.2
27	Printing and publishing	-	25	5	0.5	6.0	0.3	0.6	3.8	10.3	7.7	17.9	0.4	0.7	10.6
28	Chemicals and allied products	-	11	3	0.3	3.5	0.1	0.3	1.1	5.7	10.7	16.2	0.7	0.3	5.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Vineland-Millville-Bridgeton SMSA—Con.														
32	Stone, clay, and glass products	-	50	27	9.1	122.2	7.6	14.7	94.5	251.5	141.9	393.5	21.5	10.9	164.0
322	Glass and glassware, pressed or blown	-	17	11	7.6	105.0	6.4	12.3	82.2	213.5	122.8	336.0	(D)	9.4	142.3
3231	Products of purchased glass	-	23	13	1.4	15.5	1.1	2.2	11.2	33.9	15.0	49.5	1.0	0.8	10.8
35	Machinery, except electrical	E1	27	4	0.6	7.2	0.3	0.7	3.8	14.2	6.7	19.8	(D)	(NA)	(NA)
	Wilmington, Del.-N.J.-Md. SMSA	-	**530**	**212**	**62.8**	**1 169.3**	**29.7**	**57.5**	**419.3**	**1 481.6**	**3 435.7**	**4 874.6**	**158.4**	**64.1**	**1 161.3**
20	Food and kindred products	E1	43	17	1.4	15.6	0.9	1.8	7.7	34.7	70.1	105.1	(D)	2.3	46.0
201	Meat products	E1	11	3	0.3	2.2	0.3	0.7	2.0	3.3	10.5	13.8	0.3	0.3	2.4
22	Textile mill products	-	8	4	0.6	6.1	0.5	1.0	4.4	10.9	11.3	22.9	0.9	0.8	8.0
23	Apparel and other textile products	-	25	15	1.2	7.0	1.2	2.0	6.3	17.2	5.9	23.7	0.2	1.5	12.5
233	Women's and misses' outerwear	-	13	10	0.8	4.4	0.8	1.3	4.1	12.6	2.2	15.0	0.1	0.7	4.6
24	Lumber and wood products	-	24	6	0.3	4.0	0.3	0.6	3.2	8.7	16.8	25.9	0.3	0.3	5.3
26	Paper and allied products	-	14	11	0.9	11.9	0.7	1.4	8.0	24.7	40.8	65.3	2.8	1.1	15.7
2752	Commercial printing, lithographic	E1	20	5	0.4	4.8	0.3	0.5	3.1	8.4	4.3	12.7	0.3	0.4	6.1
28	Chemicals and allied products	-	52	35	11.5	227.4	7.8	15.3	133.4	610.3	865.0	1 475.1	99.7	10.8	381.7
281	Industrial inorganic chemicals	-	9	5	1.5	29.4	0.9	1.8	16.2	92.0	81.8	174.8	(D)	1.7	65.6
30	Rubber and miscellaneous plastics products	-	34	26	2.7	35.8	1.9	3.8	21.2	91.9	90.0	183.3	8.8	3.3	64.9
3079	Miscellaneous plastics products	-	29	22	2.3	30.2	1.6	3.2	18.4	82.3	82.1	163.0	(D)	2.1	43.7
32	Stone, clay, and glass products	-	32	12	1.7	22.2	1.4	2.5	17.3	48.5	50.1	98.7	2.6	2.3	40.8
33	Primary metal industries	-	10	7	2.4	34.8	1.7	3.0	22.9	45.5	78.5	123.9	(D)	2.6	38.5
34	Fabricated metal products	-	47	17	1.9	23.5	1.4	2.7	15.4	45.3	34.8	78.5	1.7	2.0	30.3
344	Fabricated structural metal products	-	26	12	1.1	15.0	0.8	1.6	9.4	28.3	25.1	52.4	1.0	0.9	15.6
349	Miscellaneous fabricated metal products	E1	11	3	0.3	4.2	0.2	0.5	2.9	9.8	5.4	14.8	0.5	0.3	6.3
35	Machinery, except electrical	E1	47	9	1.1	18.3	0.7	1.3	9.0	24.1	13.0	37.3	(D)	1.0	15.1
36	Electric and electronic equipment	-	11	5	0.8	8.9	0.6	1.2	5.8	18.3	25.8	44.6	1.3	1.4	14.6

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Atlantic County (Coextensive with Atlantic City, N.J., SMSA; see table 6.)													
	Bergen County	-	**2 579**	**904**	**109.1**	**1 519.7**	**63.8**	**126.1**	**712.5**	**2 843.8**	**3 683.6**	**6 506.1**	**202.6**	**110.2**	**1 958.4**
20	Food and kindred products	-	103	48	6.0	86.0	4.0	8.5	52.1	285.5	509.9	801.9	15.8	5.9	172.5
203	Preserved fruits and vegetables	-	14	7	0.9	11.0	0.6	1.3	6.4	38.5	35.8	74.2	1.5	(NA)	(NA)
205	Bakery products	-	23	7	1.8	24.8	1.6	3.3	19.7	87.0	50.0	136.6	(D)	(NA)	(NA)
208	Beverages	-	19	11	1.2	20.3	0.4	1.0	6.5	60.7	86.0	147.5	4.6	0.9	26.3
2087	Flavoring extracts and sirups, n.e.c.	-	10	7	0.5	8.2	0.2	0.5	3.7	24.2	36.9	62.0	(D)	(NA)	(NA)
209	Miscellaneous foods and kindred products	-	15	10	1.1	17.3	0.7	1.6	10.1	72.2	244.3	322.9	1.9	1.0	35.1
2258	Warp knit fabric mills	-	18	11	1.5	14.5	1.3	2.7	11.0	20.5	31.1	53.3	(D)	(NA)	(NA)
226	Textile finishing, except wool	-	12	6	0.9	10.7	0.7	1.5	7.6	22.1	23.9	44.5	(D)	1.1	18.5
228	Yarn and thread mills	-	8	4	0.5	4.4	0.4	0.7	2.8	7.6	19.0	26.2	(D)	(NA)	(NA)
229	Miscellaneous textile goods	E3	22	11	0.7	7.1	0.6	1.1	4.8	12.7	13.7	26.1	(D)	1.3	24.7
23	Apparel and other textile products	E1	283	76	6.3	54.1	5.4	9.3	39.0	112.7	127.0	238.3	(D)	6.1	75.2
233	Women's and misses' outerwear	-	69	36	2.5	20.9	2.2	3.5	15.9	44.0	65.6	108.8	(D)	2.1	23.0
2337	Women's and misses' suits and coats	-	24	14	1.1	9.9	1.0	1.7	7.7	17.4	25.5	42.3	(D)	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	-	13	7	0.6	6.6	0.6	0.9	4.6	20.4	36.5	56.4	(D)	(NA)	(NA)
238	Miscellaneous apparel and accessories	-	13	7	0.6	4.8	0.6	0.9	3.5	7.4	7.4	14.7	(D)	0.6	7.1
239	Miscellaneous fabricated textile products	E1	170	24	2.2	21.7	1.8	3.5	15.3	38.7	33.1	71.9	(D)	2.0	28.2
2397	Schiffli machine embroideries	E1	87	12	1.0	12.4	0.8	1.8	8.5	21.4	19.9	41.5	(D)	(NA)	(NA)
24	Lumber and wood products	-	54	11	1.1	14.3	0.8	1.6	8.2	23.7	38.6	61.2	(D)	1.1	13.2
243	Millwork, plywood, and structural members	-	30	7	0.5	7.8	0.4	1.0	5.3	13.7	17.7	29.8	(D)	0.6	8.3
25	Furniture and fixtures	-	46	15	1.4	14.3	1.1	2.1	9.6	30.6	26.6	56.1	(D)	1.3	15.5
26	Paper and allied products	-	75	53	5.7	82.7	4.3	8.8	54.1	190.5	234.1	423.9	25.3	5.8	117.7
264	Miscellaneous converted paper products	-	40	24	2.7	34.8	2.0	4.1	23.4	90.4	103.9	191.3	18.4	2.2	44.9
2649	Converted paper products, n.e.c.	-	16	7	0.5	8.1	0.4	0.9	5.5	17.1	25.4	40.1	(D)	(NA)	(NA)
265	Paperboard containers and boxes	-	30	24	2.5	36.0	1.9	3.9	23.5	68.3	77.1	147.8	(D)	3.1	56.2
2651	Folding paperboard boxes	-	10	9	0.8	12.9	0.7	1.3	8.8	23.6	21.3	47.1	0.6	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	15	11	1.4	19.8	1.0	2.1	12.1	39.5	50.0	89.6	2.4	(NA)	(NA)
27	Printing and publishing	E1	430	84	10.7	133.1	5.0	9.5	57.2	275.0	154.6	426.1	15.6	9.7	178.7
2711	Newspapers	-	38	9	1.3	16.4	0.4	0.9	5.0	38.8	12.9	51.7	1.7	(NA)	(NA)
273	Books	E2	38	11	1.3	15.9	0.7	1.4	7.9	46.4	35.5	79.8	1.4	0.9	25.7
2731	Book publishing	-	23	6	0.6	6.5	0.2	0.3	1.4	28.6	19.4	46.2	0.2	(NA)	(NA)
2732	Book printing	E5	15	5	0.7	9.4	0.6	1.1	6.4	17.9	16.2	33.7	1.1	(NA)	(NA)
275	Commercial printing	E1	223	33	2.6	36.6	2.1	4.0	25.4	76.8	57.5	133.8	4.3	2.5	47.5
2751	Commercial printing, letterpress	E1	125	14	1.3	13.8	1.0	2.0	9.9	33.0	19.2	51.8	1.7	(NA)	(NA)
2752	Commercial printing, lithographic	E2	90	17	1.2	21.0	1.0	1.8	14.3	40.6	37.5	78.0	2.5	(NA)	(NA)
278	Blankbooks and bookbinding	-	24	10	1.1	11.0	0.9	1.6	8.1	20.3	13.4	33.7	0.9	0.9	12.1
2789	Bookbinding and related work	-	19	7	0.7	7.4	0.6	1.0	5.9	11.2	2.7	13.8	(D)	(NA)	(NA)
28	Chemicals and allied products	-	179	80	9.2	139.0	5.3	10.9	62.9	407.0	461.2	864.9	25.3	8.9	257.6
2819	Industrial inorganic chemicals, n.e.c.	-	7	3	0.5	9.1	0.3	0.6	4.6	27.9	31.2	52.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Bergen County—Con.														
28	Chemicals and allied products—Con.														
2834	Pharmaceutical preparations	-	20	7	0.7	9.0	0.6	1.2	5.8	29.4	33.9	64.4	1.3	(NA)	(NA)
284	Soaps, cleaners, and toilet goods	-	54	27	4.5	70.5	2.6	5.2	28.1	206.7	190.0	400.3	5.4	4.0	132.6
2841	Soap and other detergents	-	11	7	0.7	12.6	0.4	0.8	6.6	31.8	39.1	71.8	(D)	(NA)	(NA)
2842	Polishes and sanitation goods	E1	12	5	0.5	8.2	0.2	0.4	2.7	16.1	17.9	34.7	(D)	(NA)	(NA)
2844	Toilet preparations	-	24	11	3.0	45.8	1.8	3.6	16.5	145.3	105.5	253.5	2.1	(NA)	(NA)
2851	Paints and allied products	E1	27	11	0.6	9.0	0.4	0.7	4.4	21.2	33.4	54.1	(D)	(NA)	(NA)
2869	Industrial organic chemicals, n.e.c.	-	9	4	0.6	9.3	0.3	0.7	4.6	35.9	49.1	85.5	5.5	(NA)	(NA)
289	Miscellaneous chemical products	E1	40	15	1.2	17.2	0.6	1.1	7.2	41.7	56.5	97.9	(D)	1.4	32.2
2893	Printing ink	E1	15	9	0.8	11.1	0.4	0.8	5.6	26.2	40.8	66.5	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E2	99	43	3.7	41.6	3.0	6.0	28.1	99.4	115.5	212.6	7.9	3.2	60.6
3079	Miscellaneous plastics products	E2	91	39	3.1	34.6	2.5	5.1	23.5	78.5	98.1	175.4	7.3	(NA)	(NA)
31	Leather and leather products	-	15	11	1.4	12.2	1.3	2.4	9.3	20.1	19.2	39.6	(D)	1.1	14.8
314	Footwear, except rubber	-	5	5	1.0	9.0	0.9	1.7	6.8	14.3	13.6	28.0	(D)	0.7	8.4
32	Stone, clay, and glass products	E1	61	20	1.0	11.9	0.7	1.4	8.0	21.1	24.4	46.4	1.2	1.4	23.0
327	Concrete, gypsum, and plaster products	E1	24	9	0.5	6.4	0.3	0.7	4.3	8.9	14.6	24.4	0.5	0.8	13.8
33	Primary metal industries	-	34	16	2.3	27.3	1.8	3.4	17.7	55.0	63.2	116.8	1.9	2.2	36.4
335	Nonferrous rolling and drawing	-	6	5	1.2	13.3	0.8	1.6	7.6	28.9	40.0	68.1	0.9	1.1	19.4
34	Fabricated metal products	-	244	92	10.0	134.2	6.9	13.6	72.7	269.5	255.7	525.8	13.7	6.9	130.9
344	Fabricated structural metal products	-	78	23	3.1	51.7	1.8	3.6	22.5	89.0	94.6	184.5	6.0	1.5	28.3
3442	Metal doors, sash, and trim	E1	17	5	0.5	5.2	0.4	0.7	3.2	9.5	9.4	19.1	0.2	(NA)	(NA)
345	Screw machine products, bolts, etc.	-	25	10	0.5	6.1	0.3	0.7	3.7	13.7	8.8	22.2	0.3	0.5	9.7
346	Metal forgings and stampings	E3	33	14	0.7	8.5	0.5	1.1	6.0	17.1	16.6	33.3	0.9	0.5	7.7
3469	Metal stampings, n.e.c.	E2	30	13	0.6	7.2	0.5	0.9	5.0	15.0	13.5	28.2	(D)	(NA)	(NA)
347	Metal services, n.e.c.	E1	33	15	0.6	6.4	0.5	0.9	4.3	12.3	12.0	24.2	0.4	0.7	10.6
349	Miscellaneous fabricated metal products	-	48	20	2.7	35.9	1.8	3.9	20.2	76.1	72.7	148.9	3.7	1.7	35.6
3494	Valves and pipe fittings	-	8	7	1.4	19.1	0.9	1.9	10.6	44.3	29.3	73.2	(D)	(NA)	(NA)
3499	Fabricated metal products, n.e.c.	-	26	7	0.8	10.1	0.6	1.2	5.4	13.3	22.8	36.4	(D)	(NA)	(NA)
35	Machinery, except electrical	-	357	80	7.3	100.7	4.7	9.3	56.6	196.3	154.1	347.4	10.1	6.4	122.1
3544	Special dies, tools, jigs, and fixtures	E1	45	5	0.5	6.4	0.4	0.7	4.6	10.3	9.4	19.6	0.7	(NA)	(NA)
3545	Machine tool accessories	-	15	6	0.7	10.6	0.5	0.9	6.0	21.4	17.2	38.3	1.4	(NA)	(NA)
355	Special industry machinery	E1	59	15	1.1	15.4	0.7	1.3	8.3	29.5	27.0	55.7	1.0	1.4	26.0
3555	Printing trades machinery	-	16	6	0.5	6.3	0.2	0.5	3.3	13.4	11.7	24.1	0.6	(NA)	(NA)
356	General industrial machinery	-	42	16	1.3	17.8	0.8	1.7	9.5	35.8	27.6	63.5	1.6	1.0	24.2
358	Refrigeration and service machinery	-	18	8	0.8	9.6	0.4	0.7	4.3	21.4	24.4	44.2	0.3	1.0	19.8
3589	Service industry machinery, n.e.c.	-	12	4	0.6	7.2	0.3	0.4	2.8	16.2	18.5	33.1	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	127	18	1.7	23.5	1.3	2.8	17.0	44.4	21.3	65.7	1.9	1.1	20.0
36	Electric and electronic equipment	E1	154	64	6.2	76.6	4.2	7.8	39.7	149.6	101.8	251.1	7.6	12.2	180.9
362	Electrical industrial apparatus	-	18	4	0.7	7.7	0.5	1.0	5.2	13.3	11.1	24.7	0.3	1.3	16.7
367	Electronic components and accessories	E1	41	16	1.3	16.6	1.0	2.0	11.0	27.3	18.1	45.2	4.1	1.5	21.2
3679	Electronic components, n.e.c.	E2	32	10	1.0	10.4	0.7	1.4	6.3	16.3	12.1	28.0	2.9	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	E3	17	9	1.0	12.5	0.7	1.3	5.9	28.7	24.5	51.2	1.3	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Bergen County—Con.													
38	Instruments and related products	-	80	39	6.6	103.2	3.0	5.9	39.5	195.5	114.6	300.8	14.5	4.0	63.4
3811	Engineering and scientific instruments	-	11	6	1.7	31.1	0.7	1.6	12.6	48.2	19.9	69.8	2.0	(NA)	(NA)
382	Measuring and controlling devices	-	23	14	1.7	26.5	0.8	1.6	9.7	59.2	46.8	101.4	3.5	0.6	11.4
3825	Instruments to measure electricity	-	7	5	1.0	18.8	0.4	0.8	6.2	40.5	34.6	71.8	0.6	(NA)	(NA)
3829	Measuring and controlling devices, n.e.c.	E1	12	7	0.6	6.8	0.4	0.7	3.1	17.4	11.4	27.5	(D)	(NA)	(NA)
384	Medical instruments and supplies	E1	20	10	2.4	34.9	1.1	2.1	13.5	62.0	31.7	88.4	7.6	2.6	39.3
--	Administrative and auxiliary	-	113	71	15.2	280.6	-	-	-	-	-	-	-	(NA)	(NA)
	Burlington County	-	486	169	21.1	272.3	14.6	28.0	165.7	590.9	635.9	1 225.2	36.4	21.7	412.5
20	Food and kindred products	-	22	11	0.9	11.6	0.7	1.2	6.3	41.1	94.5	135.2	0.8	0.9	22.8
22	Textile mill products	E1	18	14	1.6	14.9	1.4	2.8	11.7	26.1	26.5	52.5	1.6	1.3	14.4
27	Printing and publishing	E2	61	12	0.8	9.8	0.6	1.1	6.0	20.1	11.0	31.1	1.1	0.5	8.6
275	Commercial printing	E1	40	6	0.5	6.3	0.4	0.7	4.1	12.3	8.3	20.5	0.8	(NA)	(NA)
28	Chemicals and allied products	-	25	8	1.3	22.2	0.8	1.7	11.7	85.3	126.9	213.5	6.6	1.8	38.7
33	Primary metal industries	-	15	8	1.5	22.1	1.1	2.2	15.9	77.9	76.7	153.2	3.7	3.1	58.6
34	Fabricated metal products	-	55	23	2.3	29.2	1.6	3.2	15.9	62.9	51.4	110.5	6.0	2.3	38.9
35	Machinery, except electrical	E1	89	23	2.9	35.7	1.8	3.6	18.8	64.0	51.4	115.4	4.6	2.7	82.5
356	General industrial machinery	-	16	6	0.7	10.5	0.3	0.7	4.7	22.1	21.9	43.4	(D)	0.5	8.1
357	Office and computing machines	E1	8	6	1.2	12.7	0.8	1.5	6.1	20.7	14.1	35.1	2.0	(NA)	(NA)
36	Electric and electronic equipment	-	37	14	3.1	58.4	2.3	4.5	41.7	93.2	62.8	156.2	(D)	(NA)	(NA)
37	Transportation equipment	-	12	4	0.8	10.2	0.6	1.3	7.3	17.6	16.2	34.4	1.0	0.5	5.0
38	Instruments and related products	-	12	4	0.5	6.9	0.3	0.5	2.8	17.4	11.6	28.7	0.4	(NA)	(NA)
	Camden County	-	806	253	32.8	446.2	22.0	42.2	253.2	952.1	1 102.5	2 033.7	53.0	35.9	638.2
20	Food and kindred products	-	51	25	4.1	51.1	3.0	5.7	33.5	175.6	328.9	503.7	12.3	4.9	114.0
208	Beverages	-	8	4	0.5	7.1	0.3	0.5	3.0	22.3	38.5	59.9	1.8	0.5	12.1
23	Apparel and other textile products	E2	36	14	0.9	6.3	0.7	1.3	4.5	13.0	12.4	25.3	(D)	1.0	7.3
233	Women's and misses' outerwear	E1	14	9	0.5	3.9	0.5	0.8	2.7	7.3	7.5	14.7	(D)	0.6	3.8
25	Furniture and fixtures	E1	17	7	0.5	6.0	0.4	0.8	4.2	11.6	11.1	22.6	(D)	0.5	6.9
26	Paper and allied products	-	28	12	1.6	20.9	1.3	2.6	15.6	37.9	72.2	109.8	3.2	1.9	32.9
27	Printing and publishing	E1	143	30	3.1	41.2	1.9	3.4	23.0	85.1	41.2	126.0	3.8	2.5	51.6
275	Commercial printing	E2	88	10	0.9	11.5	0.7	1.2	7.5	21.7	13.1	34.7	1.3	0.8	19.1
28	Chemicals and allied products	-	43	21	2.6	32.5	1.7	3.4	19.3	90.1	125.8	210.8	4.9	2.9	65.7
2851	Paints and allied products	-	10	4	0.6	8.9	0.4	0.7	4.6	28.5	50.2	78.7	(D)	(NA)	(NA)
289	Miscellaneous chemical products	-	11	6	1.0	11.2	0.6	1.3	6.8	23.5	24.7	44.6	0.7	1.0	19.2
30	Rubber and miscellaneous plastics products	-	23	9	0.8	9.0	0.7	1.2	5.8	18.8	16.2	34.9	0.9	0.5	7.0
32	Stone, clay, and glass products	-	35	17	3.0	41.7	2.4	4.8	32.1	133.1	97.2	230.2	9.9	3.3	83.9

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see eppendix B]

SIC code	County end industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Weges (million dollars)	Value edded by manufecture (million dollars)	Cost of meterials[2] (million dollars)	Velue of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Camden County—Con.													
32	Stone, clay, and gless products—Con.													
327	Concrete, gypsum, end plester products	-	16	5	0.5	7.4	0.4	0.8	5.2	12.1	17.8	29.3	(D)	0.7	18.1
3296	Mineral wool	-	4	4	2.0	29.8	1.7	3.5	23.9	112.2	71.0	183.5	(D)	(NA)	(NA)
34	Fabricated metal products	-	109	27	2.9	35.4	2.3	4.3	24.3	90.8	99.7	189.8	4.2	3.7	76.1
344	Fabricated structurel metal products	E1	51	13	1.1	13.6	0.9	1.6	9.1	22.4	27.1	49.1	1.1	1.1	17.3
3444	Sheet metel work	E1	19	5	0.5	5.9	0.4	0.7	4.1	9.3	11.5	20.4	0.5	(NA)	(NA)
346	Metal forgings end stempings	-	10	4	0.6	8.1	0.4	0.9	5.4	12.0	27.2	39.3	1.3	0.9	11.8
3469	Metal stempings, n.e.c.	-	10	4	0.6	8.1	0.4	0.9	5.4	12.0	27.2	39.3	1.3	(NA)	(NA)
35	Machinery, except electrical	E1	136	25	2.7	38.8	1.8	3.7	22.4	71.6	45.2	116.8	3.4	2.4	44.5
355	Special industry machinery	-	14	4	0.8	13.4	0.5	1.1	7.2	22.9	14.5	37.0	1.2	(NA)	(NA)
359	Miscelleneous mechinery, except electricel	E4	55	4	0.6	7.6	0.5	0.9	5.3	13.1	5.7	18.8	0.7	0.6	7.9
3599	Machinery, except electrical, n.e.c.	E4	55	4	0.6	7.6	0.5	0.9	5.3	13.1	5.7	18.8	0.7	(NA)	(NA)
36	Electric and electronic equipment	-	44	20	5.0	84.5	3.1	5.9	44.0	138.1	112.3	239.9	4.2	5.9	91.4
367	Electronic components end accessories	E3	16	8	0.5	5.8	0.4	0.8	3.2	9.8	6.7	16.9	(D)	(NA)	(NA)
--	Administrative and auxiliary	-	21	9	2.1	39.8	-	-	-	-	-	-	-	(NA)	(NA)
	Cape May County	-	**76**	**12**	**0.9**	**8.2**	**0.7**	**1.1**	**5.5**	**11.8**	**22.7**	**34.4**	**0.9**	**1.3**	**13.6**
	Cumberland County (Coextensive with Vineland-Millville-Bridgeton, N.J., SMSA; see table 6.)														
	Essex County	-	**2 006**	**710**	**86.1**	**1 195.1**	**54.8**	**106.1**	**586.7**	**2 460.2**	**2 272.2**	**4 751.1**	**118.1**	**104.0**	**1 912.4**
20	Food and kindred products	-	92	38	6.3	97.6	4.4	8.3	63.4	241.6	419.2	659.8	8.8	10.2	235.1
203	Preserved fruits and vegetables	E1	14	7	0.7	7.2	0.5	1.0	4.7	17.4	27.5	44.9	0.9	(NA)	(NA)
232	Men's and boys' furnishings	-	12	6	0.8	5.3	0.6	1.1	3.9	10.9	5.8	16.1	(D)	0.5	7.1
233	Women's and misses' outerwear	E5	88	49	2.7	18.5	2.5	4.4	15.5	28.1	11.7	39.5	(D)	3.2	19.7
2335	Women's and misses' dresses	E7	47	23	1.1	6.9	1.0	1.6	5.6	9.6	4.7	14.3	(D)	(NA)	(NA)
2337	Women's and misses' suits and coats	E4	27	17	0.9	7.0	0.9	1.5	5.7	10.6	4.4	15.0	(D)	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	E3	9	6	0.6	4.0	0.6	1.2	3.6	7.0	2.4	9.3	(D)	(NA)	(NA)
238	Miscellaneous epparel and accessories	-	12	9	0.7	4.7	0.6	1.1	3.4	11.3	8.5	19.4	(D)	1.3	12.3
26	Paper and allied products	-	58	31	2.7	36.3	2.1	4.4	23.8	69.7	82.8	152.3	5.3	2.7	49.3
264	Miscellaneous converted peper products	E1	28	11	1.0	12.4	0.8	1.7	8.9	26.6	33.5	60.2	(D)	0.8	17.3
2653	Corrugated and solid fiber boxes	-	11	7	0.9	15.6	0.6	1.4	9.0	26.7	33.1	59.8	3.4	(NA)	(NA)
27	Printing and publishing	E1	256	42	5.6	72.7	3.6	6.7	43.9	144.3	94.0	238.2	4.8	6.0	108.6
273	Books	-	22	5	0.5	7.0	0.2	0.5	3.2	15.3	8.1	23.2	1.2	(NA)	(NA)
275	Commercial printing	E1	158	25	2.5	33.3	1.9	3.7	22.3	57.1	39.7	96.5	2.6	2.7	42.8
28	Chemicels and ellied products	-	145	64	13.0	248.0	6.1	12.6	78.6	825.0	574.9	1 413.5	49.0	13.8	555.8
2819	Industrial inorganic chemicals, n.e.c.	-	7	5	0.5	8.5	0.3	0.6	4.2	34.9	114.6	151.1	(D)	(NA)	(NA)
284	Soaps, cleaners, and toilet goods	E1	27	6	0.6	8.5	0.3	0.6	3.5	30.4	27.5	58.1	1.1	1.1	29.2
289	Miscellaneous chemical products	-	28	11	0.8	11.1	0.4	0.9	5.7	30.4	37.4	67.2	3.2	0.7	18.3
30	Rubber and miscelleneous plestics products	E1	101	45	3.4	38.6	2.5	5.1	23.8	91.3	92.7	183.3	4.5	3.6	57.6
3079	Miscellaneous plastics products	E1	85	41	3.1	34.7	2.3	4.6	21.2	83.5	84.1	166.9	4.2	(NA)	(NA)
32	Stone, clay, and gless products	E1	47	17	0.8	10.7	0.6	1.3	7.1	24.0	21.1	44.8	1.7	1.1	15.8

See footnotes et end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Essex County—Con.													
33	Primary metal industries	–	51	28	3.0	41.9	2.4	4.8	28.6	71.6	149.9	225.2	7.5	3.3	68.7
335	Nonferrous rolling and drawing	–	9	6	1.6	22.1	1.3	2.7	15.7	41.3	51.3	91.7	1.6	(NA)	(NA)
34	Fabricated metal products	E1	266	73	7.0	85.1	5.6	11.1	57.8	166.2	117.5	282.1	9.2	8.2	133.2
342	Cutlery, hand tools, and hardware	–	23	9	1.8	20.7	1.4	3.0	15.9	44.9	24.8	69.6	2.8	2.1	33.3
344	Fabricated structural metal products	E2	60	17	1.0	12.8	0.8	1.6	9.0	22.6	21.5	44.5	0.8	1.4	24.8
3444	Sheet metal work	E2	26	7	0.5	5.9	0.4	0.8	4.5	10.6	9.2	19.7	(D)	(NA)	(NA)
346	Metal forgings and stampings	E1	36	14	1.2	13.8	1.0	2.0	9.9	24.2	21.3	45.3	2.7	0.9	13.0
347	Metal services, n.e.c.	–	62	8	0.7	8.6	0.6	1.3	6.2	15.2	7.5	22.7	0.4	0.8	10.7
349	Miscellaneous fabricated metal products	–	54	17	1.7	21.6	1.3	2.3	12.1	42.7	30.5	72.0	2.1	1.8	34.5
35	Machinery, except electrical	–	285	71	7.0	94.2	4.8	9.2	52.1	179.3	145.6	330.0	6.7	6.8	120.9
354	Metalworking machinery	E2	82	14	0.9	12.2	0.7	1.3	7.6	19.9	12.5	32.0	(D)	1.0	19.7
355	Special industry machinery	–	48	18	2.6	38.1	1.5	3.0	18.3	74.0	71.9	145.8	1.7	2.2	36.9
3559	Special industry machinery, n.e.c.	–	31	11	1.8	25.9	1.0	2.1	13.0	45.8	25.0	73.0	1.1	(NA)	(NA)
356	General industrial machinery	–	37	18	1.6	22.1	1.2	2.3	12.3	42.9	28.5	76.2	(D)	1.4	25.7
359	Miscellaneous machinery, except electrical	E1	86	14	0.8	10.6	0.7	1.3	7.2	17.0	7.7	24.7	(D)	0.8	13.1
36	Electric and electronic equipment	–	141	57	10.5	149.7	7.0	13.7	79.5	244.2	193.4	446.2	8.4	14.5	238.8
361	Electric distributing equipment	–	13	8	2.0	27.1	1.4	2.6	15.8	56.5	32.2	87.5	(D)	(NA)	(NA)
363	Household appliances	–	6	2	0.5	5.9	0.4	0.7	4.3	12.2	10.8	23.0	(D)	(NA)	(NA)
364	Electric lighting and wiring equipment	–	29	11	1.4	15.0	1.2	2.2	9.8	33.5	27.3	60.8	0.8	5.4	58.6
3643	Current-carrying wiring devices	–	12	4	0.6	6.1	0.5	0.9	4.1	13.2	7.3	20.7	0.3	(NA)	(NA)
367	Electronic components and accessories	–	51	21	1.4	17.4	1.1	2.2	10.3	37.1	20.4	57.9	1.4	2.1	29.8
3679	Electronic components, n.e.c.	E1	39	17	1.2	14.8	0.9	1.8	8.7	30.5	14.6	45.3	1.1	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	–	13	5	2.1	34.4	1.3	2.8	16.9	20.4	48.4	65.5	1.9	0.7	10.5
371	Motor vehicles and equipment	E1	13	6	0.6	5.3	0.4	0.7	3.3	21.0	34.6	53.5	0.6	0.6	6.6
38	Instruments and related products	–	67	28	4.3	49.9	2.9	5.6	26.8	93.9	58.1	151.4	2.9	4.3	74.1
384	Medical instruments and supplies	–	16	5	0.5	6.5	0.4	0.8	4.5	11.8	6.5	18.6	0.4	(NA)	(NA)
39	Miscellaneous manufacturing industries	E1	133	53	4.7	55.8	3.4	6.3	31.7	112.3	110.8	218.9	2.3	6.3	94.1
391	Jewelry, silverware, and plated ware	E2	47	17	1.8	21.5	1.3	2.4	12.3	48.6	55.8	100.6	0.5	1.9	30.5
399	Miscellaneous manufactures	–	47	23	2.2	27.2	1.5	2.9	15.2	48.0	41.2	89.0	1.1	3.2	44.8
3993	Signs and advertising displays	–	16	10	0.6	5.6	0.5	0.9	3.6	9.5	5.4	14.7	(D)	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	–	24	9	1.3	17.6	0.8	1.5	9.4	31.1	29.3	60.7	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	40	24	6.5	115.8	–	–	–	–	–	–	–	(NA)	(NA)
	Gloucester County	–	**264**	96	13.3	**188.4**	9.4	18.2	**114.0**	349.2	**1 710.4**	**2 058.9**	**46.2**	**11.8**	**205.1**
20	Food and kindred products	E1	21	6	0.5	5.3	0.4	0.7	3.6	15.5	36.9	52.7	1.4	0.6	9.0
27	Printing and publishing	E1	31	5	0.6	6.2	0.4	0.7	3.3	13.1	5.9	18.9	0.6	(NA)	(NA)
28	Chemicals and allied products	–	16	10	1.7	30.5	1.1	2.2	18.3	136.9	168.0	306.7	8.9	1.9	82.0
34	Fabricated metal products	–	31	12	1.2	16.3	1.0	1.9	12.3	36.2	39.8	76.3	1.4	1.1	18.6
36	Electric and electronic equipment	–	13	9	2.3	25.1	1.8	3.9	18.3	46.3	47.5	92.4	(D)	1.9	23.3
	Hudson County (Coextensive with Jersey City, N.J., SMSA; see table 6.)														

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Hunterdon County	-	148	58	6.0	80.6	3.9	8.0	43.9	181.1	302.0	481.4	11.8	4.2	85.7
20	Food and kindred products	-	12	9	1.1	15.8	0.7	1.5	9.1	63.0	131.8	195.0	3.1	0.8	25.7
32	Stone, clay, and glass products	-	8	5	0.5	5.5	0.4	0.8	4.0	11.8	9.5	21.1	(D)	(NA)	(NA)
34	Fabricated metal products	-	13	7	0.6	7.4	0.4	0.9	4.0	17.0	17.4	33.8	1.1	(NA)	(NA)
	Mercer County (Coextensive with Trenton, N.J., SMSA; see table 6.)														
	Middlesex County (Coextensive with New Brunswick-Perth Amboy-Sayreville, N.J., SMSA; see table 6.)														
	Monmouth County (Coextensive with Long Branch-Asbury Park, N.J., SMSA; see table 6.)														
	Morris County	-	774	259	48.4	796.8	20.2	39.7	219.1	1 148.4	887.3	1 998.7	56.7	43.0	833.5
20	Food and kindred products	-	13	5	0.7	8.5	0.5	1.0	4.9	27.7	44.3	70.4	1.1	0.8	19.8
22	Textile mill products	E1	10	6	0.7	8.4	0.5	0.8	4.4	16.6	10.1	26.5	(D)	(NA)	(NA)
26	Paper and allied products	-	21	11	1.4	19.8	1.1	2.3	13.2	38.7	98.4	137.9	(D)	(NA)	(NA)
27	Printing and publishing	-	110	18	2.2	26.9	0.9	1.5	9.8	55.6	30.8	86.5	1.8	2.1	45.0
2711	Newspapers	-	15	3	0.7	6.2	0.2	0.3	2.8	11.3	3.8	15.0	0.2	(NA)	(NA)
28	Chemicals and allied products	-	39	20	4.0	65.1	2.4	5.0	30.9	361.6	185.8	536.2	16.5	4.3	297.3
289	Miscellaneous chemical products	-	13	5	0.8	10.7	0.5	1.0	6.4	29.7	21.9	51.2	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	52	25	2.6	26.9	1.9	3.9	18.5	63.5	56.8	120.1	6.2	2.6	45.3
32	Stone, clay, and glass products	-	32	6	1.3	18.0	1.1	2.2	14.2	35.0	35.4	71.0	2.9	1.6	37.5
34	Fabricated metal products	-	92	28	4.4	63.3	2.7	5.2	31.4	142.2	88.2	229.3	3.7	4.1	84.3
346	Metal forgings and stampings	-	15	3	0.5	6.4	0.4	0.8	4.2	12.8	8.8	21.6	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	27	15	2.9	44.6	1.6	3.0	19.9	106.9	61.3	167.5	2.3	2.8	62.1
3494	Valves and pipe fittings	-	6	5	2.0	33.0	1.0	1.7	13.3	79.7	28.8	107.7	1.1	(NA)	(NA)
35	Machinery, except electrical	-	148	27	4.2	60.3	2.1	4.2	25.3	127.8	96.5	210.8	13.0	3.8	100.8
355	Special industry machinery	-	11	4	1.1	14.8	0.5	1.1	6.3	54.3	16.4	65.0	1.8	1.2	29.8
36	Electric and electronic equipment	-	70	27	5.5	67.4	3.6	6.8	33.1	137.4	92.2	223.9	4.5	4.1	72.5
366	Communication equipment	-	10	4	1.9	25.3	1.1	1.8	10.2	41.0	35.5	72.8	1.8	(NA)	(NA)
367	Electronic components and accessories	-	28	11	1.8	21.4	1.2	2.5	10.7	48.7	23.4	70.2	1.8	1.4	23.0
3679	Electronic components, n.e.c.	-	18	6	1.1	13.9	0.7	1.5	5.9	32.8	18.4	49.5	1.2	(NA)	(NA)
38	Instruments and related products	-	41	21	2.0	27.9	1.2	2.3	12.9	63.4	44.0	105.9	1.9	1.4	22.8
382	Measuring and controlling devices	-	22	10	0.7	8.3	0.4	0.7	3.7	19.1	9.0	27.6	0.5	(NA)	(NA)
--	Administrative and auxiliary	-	51	42	16.3	371.4	-	-	-	-	-	-	-	(NA)	(NA)
	Ocean County	-	242	53	6.4	75.3	5.0	9.9	50.0	184.4	163.8	348.5	16.0	5.1	76.6
27	Printing and publishing	E4	42	6	0.5	4.2	0.3	0.4	2.2	7.3	3.9	11.3	0.9	(NA)	(NA)
36	Electric and electronic equipment	-	14	6	0.8	8.3	0.7	1.5	6.0	12.2	11.8	24.0	0.5	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Ocean County—Con.													
36	Electric and electronic equipment—Con.													
	Passaic County (Coextensive with Paterson-Clifton-Passaic, N.J., SMSA; see table 6.)													
	Salem County	-	59	27	9.6	174.0	7.1	13.3	107.5	382.2	540.2	920.4	(D)	10.8	306.6
	Sussex County	-	113	27	2.9	29.8	2.1	5.0	18.3	61.2	64.7	126.1	3.1	2.8	41.3
23	Apparel and other textile products	E1	13	4	0.5	2.8	0.4	0.8	2.4	3.5	6.6	10.1	0.1	0.5	3.0
30	Rubber and miscellaneous plastics products	-	9	3	0.7	8.7	0.5	1.1	4.7	17.7	13.4	31.0	0.6	0.6	9.8
	Union County	-	1 498	624	92.6	1 419.0	55.7	112.5	705.3	3 265.8	5 651.7	8 876.9	183.5	99.0	2 235.3
20	Food and kindred products	-	59	28	3.5	49.4	2.4	4.9	30.1	121.9	412.8	534.2	7.9	3.7	111.1
201	Meat products	-	9	5	0.7	8.8	0.6	1.2	6.3	22.4	142.0	164.2	2.5	(NA)	(NA)
202	Dairy products	-	9	3	0.5	7.2	0.3	0.6	4.4	15.4	77.7	92.9	(D)	(NA)	(NA)
22	Textile mill products	E1	28	14	1.1	11.3	1.0	2.0	8.0	20.2	24.7	44.8	(D)	1.1	18.0
225	Knitting mills	-	11	5	0.7	6.8	0.6	1.3	4.9	11.7	18.7	30.4	(D)	0.5	9.5
26	Paper and allied products	-	36	26	2.1	29.3	1.6	3.2	18.1	60.4	102.4	163.2	2.2	2.3	41.1
264	Miscellaneous converted paper products	-	17	13	1.2	16.9	0.8	1.6	9.4	35.6	70.3	106.2	1.0	(NA)	(NA)
27	Printing and publishing	-	175	41	5.5	67.1	3.3	6.3	35.9	160.1	68.7	222.0	7.6	4.0	66.3
275	Commercial printing	E1	102	18	1.6	18.8	1.2	2.1	12.2	32.9	23.2	55.9	1.9	0.8	13.0
2751	Commercial printing, letterpress	E2	46	6	0.6	5.4	0.5	0.7	3.9	10.5	6.4	16.8	(D)	(NA)	(NA)
2752	Commercial printing, lithographic	E1	53	12	1.0	13.3	0.7	1.3	8.2	22.0	16.4	38.4	1.2	(NA)	(NA)
278	Blankbooks and bookbinding	-	11	7	2.0	22.2	1.3	2.7	14.4	66.6	17.8	79.0	(D)	(NA)	(NA)
279	Printing trade services	-	22	6	0.8	12.5	0.4	0.7	4.8	34.9	16.5	50.2	0.6	0.5	11.5
28	Chemicals and allied products	-	88	44	12.4	213.2	6.9	14.0	109.3	1 163.4	618.3	1 769.7	87.0	13.4	681.7
283	Drugs	-	22	16	7.0	117.7	3.9	7.5	60.1	761.1	189.9	944.2	40.0	7.6	470.2
284	Soaps, cleaners, and toilet goods	-	16	8	1.9	27.6	0.8	1.5	10.3	123.4	68.1	188.7	(D)	1.0	44.5
289	Miscellaneous chemical products	-	18	4	0.5	8.3	0.3	0.8	4.5	36.2	33.7	70.0	0.8	0.9	34.1
30	Rubber and miscellaneous plastics products	-	90	47	4.9	52.2	3.9	9.0	34.4	114.5	118.0	230.9	8.3	4.4	70.2
32	Stone, clay, and glass products	-	21	9	0.5	6.1	0.3	0.7	3.9	12.4	16.6	28.8	0.4	0.7	14.0
33	Primary metal industries	-	46	23	3.1	40.4	2.3	4.8	28.7	108.7	368.5	481.2	2.9	3.7	67.7
335	Nonferrous rolling and drawing	-	10	8	1.7	21.2	1.3	2.9	16.7	75.0	302.6	380.9	1.3	2.1	40.4
34	Fabricated metal products	-	223	94	10.3	143.6	7.3	14.9	90.5	273.4	260.6	528.8	15.2	11.0	209.4
3441	Fabricated structural metal	-	14	6	0.7	8.6	0.4	0.7	4.4	16.5	9.5	25.3	1.8	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	-	14	8	0.5	7.2	0.3	0.7	4.3	11.9	11.6	23.6	(D)	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers	-	9	5	1.3	21.9	0.8	1.8	13.6	40.1	29.4	67.6	1.8	(NA)	(NA)
3469	Metal stampings, n.e.c.	-	34	20	1.8	22.5	1.5	2.9	16.1	43.0	32.4	75.0	2.5	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	37	10	1.2	18.1	0.9	1.8	11.2	32.8	22.6	56.3	2.4	1.8	31.2
35	Machinery, except electrical	-	292	73	8.5	138.9	6.3	12.9	97.7	235.0	161.4	397.1	9.9	10.0	193.2
353	Construction and related machinery	-	10	6	0.5	7.7	0.4	0.7	3.4	18.1	9.5	29.3	(D)	(NA)	(NA)
354	Metalworking machinery	-	107	26	2.5	37.8	1.9	3.9	26.2	64.1	34.3	97.2	(D)	3.0	49.5
3544	Special dies, tools, jigs, and fixtures	E1	84	17	1.5	23.3	1.2	2.6	17.2	42.4	14.4	56.0	2.5	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Union County—Con.													
35	Machinery, except electrical—Con.													
354	Metalworking machinery—Con.													
3549	Metalworking machinery, n.e.c.	–	9	4	0.6	7.9	0.4	0.8	5.4	11.0	12.8	24.4	(D)	(NA)	(NA)
355	Special industry machinery	E1	27	11	0.8	13.1	0.5	0.9	6.9	16.6	21.5	41.8	0.8	1.2	21.5
356	General industrial machinery	–	25	10	3.2	63.6	2.6	5.4	50.5	103.4	76.7	177.1	(D)	4.3	99.3
359	Miscellaneous machinery, except electrical	E3	108	16	1.0	12.0	0.8	1.5	8.3	22.0	8.7	30.4	(D)	0.9	13.5
3599	Machinery, except electrical, n.e.c.	E3	108	16	1.0	12.0	0.8	1.5	8.3	22.0	8.7	30.4	(D)	(NA)	(NA)
36	Electric and electronic equipment	–	90	46	9.9	129.0	6.5	12.4	67.8	247.8	158.7	402.7	15.9	10.8	195.5
364	Electric lighting and wiring equipment	–	18	11	2.7	39.3	1.4	2.6	15.7	86.4	68.4	154.3	6.9	2.8	66.9
365	Radio and TV receiving equipment	–	9	5	1.0	8.5	0.7	1.3	4.2	24.3	13.0	39.0	0.6	(NA)	(NA)
367	Electronic components and accessories	E2	24	11	1.3	12.8	1.0	1.8	7.0	22.7	14.7	37.1	1.1	2.4	34.7
3714	Motor vehicle parts and accessories	–	7	3	0.7	11.0	0.3	0.5	2.5	7.6	10.5	18.4	0.5	(NA)	(NA)
38	Instruments and related products	–	38	13	1.6	20.5	0.9	1.7	8.3	35.9	42.2	79.1	1.1	1.5	31.5
39	Miscellaneous manufacturing industries	–	92	32	2.6	29.4	2.1	4.0	18.6	64.3	68.2	130.9	3.0	3.7	42.8
394	Toys and sporting goods	E1	15	7	0.6	6.1	0.4	0.8	3.3	13.3	11.2	24.4	0.7	1.6	10.7
399	Miscellaneous manufactures	–	40	11	1.0	11.1	0.8	1.6	7.2	27.6	27.1	53.9	1.8	1.1	16.4
3999	Manufacturing industries, n.e.c.	–	20	5	0.6	6.6	0.5	1.0	4.5	20.0	20.1	39.4	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	56	43	13.0	279.0	–	–	–	–	–	–	–	(NA)	(NA)
	Warren County	–	**154**	**76**	**12.6**	**172.9**	**8.6**	**17.1**	**102.5**	**422.9**	**523.6**	**974.2**	**39.4**	**14.5**	**349.2**
26	Paper and allied products	–	7	6	0.5	7.1	0.4	0.9	5.3	30.0	30.9	60.5	(D)	1.2	21.2
27	Printing and publishing	–	18	6	0.6	6.5	0.2	0.3	1.6	16.4	3.8	20.2	(D)	0.6	8.8
28	Chemicals and allied products	–	10	6	1.9	31.2	1.2	2.7	16.7	75.3	76.8	164.0	17.4	1.5	33.5
30	Rubber and miscellaneous plastics products	–	10	6	1.3	14.7	1.2	2.2	11.6	27.2	51.0	79.3	2.6	1.7	32.2
3079	Miscellaneous plastics products	–	10	6	1.3	14.7	1.2	2.2	11.6	27.2	51.0	79.3	2.6	(NA)	(NA)
36	Electric and electronic equipment	E6	13	5	0.5	5.3	0.4	0.8	3.4	9.3	8.2	17.4	0.4	(NA)	(NA)

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Asbury Park	-	**26**	**9**	**1.4**	**9.8**	**0.5**	**0.8**	**3.7**	**18.1**	**19.3**	**37.3**	**1.2**	**1.3**	**13.5**
	Atlantic City	-	**46**	**14**	**0.9**	**8.5**	**0.7**	**1.4**	**5.9**	**13.6**	**12.3**	**25.9**	**0.5**	**1.8**	**16.3**
	Bayonne	-	**94**	**49**	**5.0**	**62.1**	**3.7**	**7.1**	**39.7**	**159.6**	**332.2**	**494.4**	**11.9**	**6.2**	**119.4**
20	Food and kindred products	-	7	5	0.6	12.5	0.6	1.2	9.4	48.0	148.4	202.4	(D)	0.9	21.4
23	Apparel and other textile products	-	27	14	1.7	15.4	1.2	2.2	7.9	26.2	54.2	79.2	(D)	2.2	29.8
26	Paper and allied products	-	5	4	0.6	7.4	0.4	0.8	5.2	9.7	16.0	25.7	(D)	(NA)	(NA)
28	Chemicals and allied products	-	14	10	0.8	13.1	0.6	1.1	8.2	51.8	76.6	127.3	(D)	0.8	28.0
	Belleville	-	**124**	**32**	**4.5**	**58.8**	**2.9**	**6.0**	**33.2**	**121.9**	**91.0**	**214.3**	**7.3**	**7.9**	**168.8**
34	Fabricated metal products	E1	16	6	0.6	6.5	0.4	1.0	4.5	10.9	12.3	22.9	1.2	(NA)	(NA)
	Bellmawr	-	**34**	**8**	**0.9**	**10.7**	**0.6**	**1.2**	**6.6**	**20.1**	**26.5**	**46.8**	**0.7**	**1.0**	**13.5**
	Belmar	-	**11**	**4**	**0.5**	**4.3**	**0.4**	**0.6**	**3.1**	**10.0**	**6.8**	**16.3**	**(D)**	**0.5**	**3.4**
	Bergenfield	-	**40**	**8**	**0.9**	**8.0**	**0.4**	**0.7**	**3.6**	**11.0**	**7.5**	**18.4**	**0.5**	**0.6**	**8.2**
	Berkeley Heights twp	-	**26**	**16**	**1.5**	**20.0**	**0.8**	**1.7**	**8.9**	**40.7**	**26.4**	**65.0**	**1.7**	**1.3**	**23.9**
	Bloomfield	-	**95**	**35**	**5.8**	**77.9**	**3.7**	**7.6**	**38.2**	**89.1**	**117.4**	**204.2**	**3.8**	**7.9**	**65.7**
36	Electric and electronic equipment	-	5	4	2.0	31.3	1.3	2.6	15.8	15.6	43.4	58.1	(D)	3.2	25.0
	Bogota	-	**15**	**4**	**0.7**	**8.2**	**0.5**	**1.1**	**7.0**	**19.1**	**53.7**	**72.5**	**(D)**	**(NA)**	**(NA)**
	Boonton	-	**35**	**10**	**1.4**	**14.5**	**0.8**	**1.5**	**7.6**	**24.8**	**30.6**	**55.5**	**1.2**	**2.5**	**37.3**
	Bound Brook	-	**30**	**9**	**2.2**	**32.5**	**1.3**	**2.6**	**17.7**	**104.9**	**99.5**	**210.2**	**(D)**	**5.6**	**144.0**
	Bridgeton	-	**39**	**19**	**3.9**	**48.9**	**3.4**	**6.5**	**40.0**	**107.8**	**136.5**	**243.8**	**8.9**	**5.8**	**87.3**
	Bridgewater twp	-	**39**	**22**	**8.6**	**135.2**	**3.6**	**6.9**	**49.8**	**347.0**	**160.9**	**500.7**	**43.1**	**3.2**	**100.2**
35	Machinery, except electrical	E1	15	7	0.7	12.2	0.4	0.9	5.8	26.4	18.2	40.5	(D)	(NA)	(NA)
	Buena	-	**15**	**9**	**1.0**	**11.8**	**0.8**	**1.6**	**8.0**	**22.5**	**22.8**	**45.3**	**2.9**	**0.7**	**10.0**
	Burlington	-	**40**	**12**	**1.6**	**17.3**	**1.3**	**2.6**	**12.6**	**55.3**	**35.4**	**90.4**	**2.9**	**3.1**	**55.5**
	Burlington twp	-	**12**	**8**	**1.5**	**20.3**	**1.0**	**2.1**	**12.5**	**67.2**	**102.2**	**170.9**	**(D)**	**1.3**	**13.5**
	Butler	-	**24**	**8**	**0.6**	**6.7**	**0.4**	**0.9**	**3.9**	**11.8**	**16.3**	**28.1**	**0.9**	**1.0**	**14.0**
	Camden	-	**177**	**62**	**12.2**	**184.2**	**7.7**	**14.7**	**96.4**	**346.0**	**406.8**	**736.8**	**17.8**	**15.7**	**262.5**
20	Food and kindred products	-	19	9	2.4	32.3	1.9	3.6	22.7	106.1	185.1	290.4	7.7	3.7	79.1
28	Chemicals and allied products	-	14	8	1.1	12.7	0.7	1.5	7.6	26.4	32.6	55.7	1.7	0.5	9.4
30	Rubber and miscellaneous plastics products	-	7	3	0.5	4.8	0.4	0.7	3.3	9.7	9.0	18.9	0.3	(NA)	(NA)
3079	Miscellaneous plastics products	-	7	3	0.5	4.8	0.4	0.7	3.3	9.7	9.0	18.9	0.3	(NA)	(NA)
34	Fabricated metal products	-	32	8	1.5	18.9	1.1	2.2	13.3	60.9	61.2	121.1	1.8	1.6	43.7
	Carlstadt	-	**160**	**93**	**7.2**	**90.0**	**5.0**	**9.6**	**51.2**	**189.3**	**223.0**	**406.3**	**18.6**	**7.6**	**120.4**
23	Apparel and other textile products	-	10	4	0.5	4.6	0.4	0.6	3.2	9.8	22.7	32.6	0.3	(NA)	(NA)
28	Chemicals and allied products	-	23	16	1.5	19.7	0.8	1.5	8.3	50.5	55.0	105.0	4.7	1.4	23.8
284	Soaps, cleaners, and toilet goods	-	6	4	0.6	8.2	0.3	0.5	3.1	17.2	19.7	37.7	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Carlstadt—Con.														
34	Fabricated metal products	-	17	10	0.7	8.5	0.5	1.0	5.2	13.5	12.2	26.4	0.3	0.6	9.6
36	Electric and electronic equipment	E3	11	9	1.1	11.3	0.8	1.6	6.9	22.6	19.8	42.1	0.9	1.5	20.3
	Carteret	-	**43**	**26**	**3.5**	**53.6**	**2.7**	**5.6**	**39.5**	**163.9**	**251.9**	**414.1**	**13.0**	**4.4**	**94.4**
	Cedar Grove twp	-	**38**	**20**	**1.5**	**17.7**	**1.1**	**2.2**	**11.0**	**37.6**	**27.5**	**64.0**	**3.0**	**1.5**	**22.9**
	Chatham	-	**36**	**8**	**0.6**	**8.9**	**0.4**	**0.7**	**3.3**	**12.2**	**6.7**	**19.0**	**0.5**	**(NA)**	**(NA)**
	Cherry Hill twp	-	**122**	**37**	**4.9**	**67.7**	**2.6**	**4.6**	**27.7**	**113.8**	**91.5**	**203.2**	**5.6**	**4.2**	**58.9**
27	Printing and publishing	E1	30	10	1.0	14.0	0.4	0.7	5.4	28.9	11.0	39.9	1.1	1.0	19.8
35	Machinery, except electrical	-	23	7	1.2	18.4	0.7	1.3	9.4	34.9	24.8	60.1	1.3	0.8	17.1
	Cinnaminson twp	-	**43**	**20**	**1.9**	**26.4**	**1.3**	**2.8**	**17.0**	**76.8**	**89.7**	**166.1**	**5.3**	**1.3**	**8.6**
	Clark twp	-	**26**	**14**	**4.6**	**83.9**	**3.3**	**6.7**	**59.5**	**183.6**	**105.9**	**289.2**	**9.6**	**7.7**	**94.4**
	Clifton	-	**304**	**125**	**13.2**	**185.3**	**8.2**	**16.5**	**88.9**	**361.5**	**356.6**	**714.2**	**19.3**	**15.7**	**258.9**
22	Textile mill products	E1	17	12	0.7	7.7	0.6	1.2	5.7	17.0	18.4	35.3	(D)	1.6	19.0
26	Paper and allied products	-	16	12	1.3	18.5	1.0	2.0	11.6	34.6	50.3	84.7	(D)	1.3	17.9
265	Paperboard containers and boxes	-	4	3	0.5	7.5	0.4	0.8	4.9	11.7	14.7	26.8	(D)	(NA)	(NA)
27	Printing and publishing	-	44	12	1.1	12.3	0.9	1.8	8.7	22.6	11.1	33.7	0.9	1.1	13.9
275	Commercial printing	-	18	6	0.5	5.1	0.4	0.8	3.6	9.1	4.7	13.8	0.4	(NA)	(NA)
278	Blankbooks and bookbinding	-	8	5	0.6	6.2	0.5	0.9	4.5	11.6	5.4	17.0	(D)	(NA)	(NA)
28	Chemicals and allied products	-	25	11	2.4	37.3	1.3	2.6	15.8	118.5	96.4	214.1	5.7	2.8	68.9
284	Soaps, cleaners, and toilet goods	-	8	3	1.5	22.7	0.6	1.2	5.6	67.0	34.6	100.0	(D)	(NA)	(NA)
286	Industrial organic chemicals	-	5	3	0.7	11.2	0.6	1.1	8.6	37.4	44.3	82.5	(D)	(NA)	(NA)
33	Primary metal industries	-	7	5	0.6	9.6	0.4	0.9	6.6	18.2	25.7	43.3	(D)	0.6	16.1
34	Fabricated metal products	-	31	16	0.8	10.1	0.7	1.3	6.3	20.3	19.8	38.4	1.1	0.9	14.2
35	Machinery, except electrical	-	55	14	1.1	17.7	0.7	1.6	9.8	33.8	19.9	52.5	1.0	1.5	21.5
36	Electric and electronic equipment	E3	21	9	1.6	17.8	1.1	2.0	10.1	35.2	31.0	64.5	(D)	2.0	29.9
367	Electronic components and accessories	-	10	3	0.6	6.3	0.4	0.8	3.0	10.5	12.7	22.5	1.0	(NA)	(NA)
38	Instruments and related products	-	8	3	0.8	9.6	0.4	1.0	3.8	17.3	11.6	31.9	(D)	0.7	7.6
--	Administrative and auxiliary	-	14	8	1.2	25.4	-	-	-	-	-	-	-	(NA)	(NA)
	Closter	-	**14**	**6**	**1.0**	**9.6**	**0.8**	**1.8**	**7.0**	**18.1**	**24.2**	**43.6**	**0.8**	**0.7**	**10.9**
	Cranford twp	-	**56**	**25**	**3.1**	**36.6**	**2.0**	**4.1**	**22.5**	**138.8**	**72.9**	**214.1**	**4.2**	**3.3**	**102.5**
30	Rubber and miscellaneous plastics products	-	5	4	0.5	5.5	0.4	0.9	4.1	11.1	11.4	22.5	0.9	0.5	9.1
3079	Miscellaneous plastics products	-	5	4	0.5	5.5	0.4	0.9	4.1	11.1	11.4	22.5	0.9	(NA)	(NA)
34	Fabricated metal products	-	5	5	0.5	6.9	0.4	0.7	4.3	16.6	11.7	28.3	0.5	(NA)	(NA)
	Denville twp	-	**29**	**7**	**0.8**	**8.2**	**0.6**	**1.1**	**5.1**	**17.0**	**11.9**	**28.8**	**0.7**	**1.2**	**13.1**
	Dover	-	**34**	**12**	**1.5**	**17.1**	**1.0**	**2.1**	**10.6**	**37.2**	**51.5**	**88.2**	**2.1**	**2.5**	**78.0**
	Dover twp	-	**49**	**13**	**2.0**	**31.0**	**1.4**	**2.8**	**19.4**	**94.3**	**84.4**	**182.3**	**(D)**	**2.0**	**36.0**

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry		1977											1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	East Brunswick twp	–	**49**	**14**	**2.6**	**42.6**	**0.8**	**1.4**	**9.8**	**29.0**	**44.3**	**72.4**	**1.9**	**1.4**	**22.3**
	East Orange	–	**73**	**26**	**2.8**	**29.0**	**2.1**	**3.8**	**17.9**	**53.8**	**51.0**	**108.7**	**3.0**	**3.4**	**58.0**
	East Rutherford	–	**84**	**35**	**6.4**	**95.5**	**3.1**	**6.5**	**41.2**	**149.0**	**176.0**	**320.2**	**9.6**	**7.3**	**129.0**
22	Textile mill products	–	8	4	0.5	5.6	0.4	0.8	4.6	9.3	11.9	21.1	0.5	1.5	23.6
28	Chemicals and allied products	–	9	6	0.9	13.4	0.5	1.1	7.8	42.6	66.0	108.7	1.7	1.0	29.5
30	Rubber and miscellaneous plastics products	–	6	4	0.6	6.7	0.5	1.0	4.7	15.1	18.8	33.7	0.5	(NA)	(NA)
35	Machinery, except electrical	–	15	3	0.5	6.2	0.3	0.6	3.8	11.9	13.1	24.2	0.6	0.6	17.0
	East Windsor twp	–	**15**	**8**	**2.7**	**44.3**	**0.3**	**0.4**	**4.5**	**32.1**	**14.9**	**47.5**	**(D)**	**(NA)**	**(NA)**
	Eatontown	–	**15**	**4**	**0.9**	**12.7**	**0.6**	**1.3**	**7.0**	**29.8**	**12.9**	**41.8**	**1.3**	**0.8**	**13.5**
	Edgewater	–	**31**	**13**	**1.6**	**24.9**	**1.0**	**1.9**	**12.6**	**44.6**	**192.1**	**245.1**	**1.3**	**2.2**	**57.5**
	Edison twp	–	**146**	**79**	**15.5**	**223.2**	**10.1**	**19.5**	**127.7**	**588.7**	**959.3**	**1 534.6**	**28.2**	**12.8**	**407.9**
20	Food and kindred products	–	9	5	0.6	8.7	0.4	0.8	5.2	27.7	76.5	105.2	(D)	(NA)	(NA)
28	Chemicals and allied products	–	13	11	4.4	64.6	2.9	6.1	35.8	272.7	148.8	410.6	7.7	3.1	136.2
30	Rubber and miscellaneous plastics products	–	17	12	0.9	11.6	0.8	1.5	8.4	26.6	40.6	66.5	2.0	0.9	20.8
34	Fabricated metal products	–	15	9	1.3	21.1	1.0	2.1	14.9	61.0	72.4	132.7	5.1	0.6	17.8
341	Metal cans and shipping containers	–	6	5	0.8	15.6	0.7	1.4	12.1	49.3	64.0	112.7	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	6	3	0.8	7.7	0.5	0.6	2.1	34.0	37.3	67.1	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	17	9	1.4	21.8	–	–	–	–	–	–	–	(NA)	(NA)
	Egg Harbor City	–	**21**	**8**	**0.8**	**7.5**	**0.7**	**1.3**	**6.4**	**13.0**	**8.5**	**21.3**	**0.2**	**1.5**	**21.7**
	Elizabeth	–	**237**	**109**	**17.2**	**219.1**	**11.5**	**22.4**	**124.0**	**453.1**	**653.8**	**1 089.5**	**34.1**	**15.4**	**301.4**
20	Food and kindred products	–	18	10	1.7	23.0	1.2	2.5	14.5	65.4	161.3	223.8	3.0	1.8	68.7
27	Printing and publishing	–	27	5	1.7	19.9	1.0	2.1	11.2	65.5	17.0	77.3	2.3	1.6	26.0
28	Chemicals and allied products	–	19	9	1.1	16.2	0.7	1.5	9.7	40.6	102.3	142.9	12.0	0.9	30.4
30	Rubber and miscellaneous plastics products	–	11	5	0.7	7.5	0.5	0.9	4.4	22.9	15.6	37.3	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	–	11	5	0.7	7.5	0.5	0.9	4.4	22.9	15.6	37.3	(D)	(NA)	(NA)
34	Fabricated metal products	–	28	10	1.2	15.7	0.7	1.3	8.2	29.4	32.7	63.4	3.5	0.8	14.7
35	Machinery, except electrical	–	23	7	0.5	6.4	0.3	0.6	3.4	10.9	8.2	19.5	0.2	0.7	11.3
	Elmwood Park	–	**70**	**34**	**3.5**	**35.5**	**2.6**	**5.1**	**22.2**	**104.3**	**94.8**	**197.4**	**17.7**	**(NA)**	**(NA)**
	Englewood	–	**116**	**48**	**3.4**	**44.6**	**2.2**	**4.6**	**24.4**	**120.5**	**104.9**	**224.4**	**5.1**	**3.4**	**74.8**
20	Food and kindred products	–	9	8	0.5	7.6	0.2	0.4	3.7	17.4	31.3	48.8	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	10	6	0.5	5.2	0.4	0.8	3.5	11.7	9.2	20.7	(D)	(NA)	(NA)
	Ewing twp	–	**57**	**20**	**5.4**	**96.7**	**4.5**	**9.3**	**77.3**	**211.7**	**109.2**	**317.0**	**12.4**	**5.1**	**115.6**
	Fairfield	–	**206**	**76**	**5.8**	**75.3**	**3.9**	**7.3**	**40.2**	**145.2**	**115.9**	**259.8**	**6.0**	**5.6**	**102.9**
27	Printing and publishing	–	28	8	0.7	7.8	0.5	0.9	4.9	15.9	8.5	24.8	0.4	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Fairfield—Con.													
34	Fabricated metal products	E1	26	9	0.5	6.1	0.4	0.8	3.8	13.4	10.0	22.6	0.5	0.5	11.6
35	Machinery, except electrical	E1	61	21	1.8	22.5	1.3	2.4	13.3	44.7	43.1	88.5	(D)	1.6	23.2
36	Electric and electronic equipment	–	25	9	1.0	14.3	0.7	1.4	6.9	30.1	21.3	49.9	1.5	1.4	29.7
	Fair Lawn	–	72	36	5.0	67.8	3.5	7.0	42.0	192.4	153.3	340.7	6.9	4.6	121.0
28	Chemicals and allied products	–	9	5	0.7	9.1	0.5	0.9	5.2	32.8	39.1	70.9	(D)	0.7	23.4
	Fairview	–	129	24	1.6	17.9	1.4	2.7	12.9	29.2	38.4	67.4	1.0	1.3	22.0
23	Apparel and other textile products	E4	88	10	0.8	7.9	0.7	1.4	6.4	13.0	9.2	22.1	(D)	0.8	11.1
	Flemington	–	35	16	1.1	15.7	0.7	1.3	7.5	33.2	117.2	150.3	3.1	1.6	43.5
	Florham Park	–	14	9	4.1	83.8	1.0	1.6	12.9	83.3	44.4	124.2	(D)	(D)	(D)
	Fort Lee	–	40	9	0.8	11.2	0.3	0.6	2.9	12.2	10.4	22.2	0.3	0.7	6.3
	Franklin twp	–	53	23	2.5	33.5	1.7	3.2	19.2	65.5	85.1	147.6	6.4	1.4	24.2
36	Electric and electronic equipment	E5	5	3	0.6	7.9	0.4	0.8	4.4	11.9	6.8	17.8	3.1	(NA)	(NA)
	Franklin Lakes	–	29	6	1.6	38.3	0.2	0.4	1.9	10.0	10.1	19.7	0.2	3.2	5.0
	Freehold twp	–	20	13	2.4	28.7	1.7	3.5	17.8	87.5	79.6	165.9	2.7	1.6	43.3
	Garfield	–	133	43	4.2	48.1	3.2	6.1	30.0	99.7	96.6	195.9	4.6	4.8	66.7
23	Apparel and other textile products	E1	32	14	0.9	6.0	0.8	1.4	5.3	7.6	2.8	10.4	(Z)	1.1	9.3
26	Paper and allied products	–	7	5	0.6	11.8	0.5	1.0	7.7	31.0	36.0	67.0	(D)	(NA)	(NA)
34	Fabricated metal products	E1	14	3	0.7	7.7	0.6	1.1	5.0	12.5	7.2	20.2	0.4	0.6	7.3
	Garwood	–	38	15	1.8	21.4	1.4	2.8	13.9	44.1	34.9	78.7	2.0	1.7	28.7
	Glassboro	–	26	10	1.1	13.1	0.9	1.6	9.5	27.9	37.6	65.6	0.9	1.2	18.6
	Glen Rock	–	18	4	0.7	7.8	0.1	0.3	1.4	9.2	4.5	13.8	0.1	0.8	2.2
	Gloucester twp	–	36	15	1.2	12.6	0.9	1.8	7.9	29.9	26.5	55.9	0.5	1.0	17.3
	Gloucester City	–	33	12	1.2	15.9	0.9	1.8	11.1	46.5	63.5	108.9	3.5	1.3	21.7
	Guttenberg	–	83	10	0.8	7.4	0.7	1.3	5.5	15.6	12.7	28.3	0.8	0.8	11.9
23	Apparel and other textile products	E2	57	7	0.5	4.4	0.4	0.9	3.6	8.3	5.9	14.3	(D)	0.5	7.0
	Hackensack	–	196	48	5.1	58.1	3.5	6.5	32.3	120.1	92.0	209.5	7.7	6.2	103.1
27	Printing and publishing	–	40	6	1.3	17.9	0.6	1.2	7.6	40.8	16.3	56.9	(D)	1.4	28.1
34	Fabricated metal products	E4	27	8	0.5	5.9	0.4	0.7	3.5	9.0	10.0	19.0	(D)	(NA)	(NA)
35	Machinery, except electrical	E1	32	5	0.6	7.0	0.4	0.7	3.9	14.2	12.5	27.0	(D)	(NA)	(NA)
36	Electric and electronic equipment	–	14	6	0.6	6.1	0.5	0.9	3.9	12.0	7.5	18.8	(D)	0.7	10.3
	Haledon	–	24	9	1.1	13.5	0.9	1.7	8.9	25.6	66.1	90.2	1.3	1.0	16.6
	Hamilton twp	–	88	31	5.1	65.4	3.8	7.7	45.8	149.6	170.7	322.3	5.9	4.1	105.8
	Hammonton	–	35	10	2.2	22.2	1.9	3.4	17.7	122.7	34.8	156.4	1.0	2.6	106.9
	Hanover twp	–	69	36	7.6	130.7	2.7	5.5	31.9	142.1	132.3	261.7	15.9	8.4	89.0

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Hanover twp—Con.													
28	Chemicals and allied products	E6	8	6	1.0	15.7	0.5	1.1	6.3	32.9	31.2	61.5	10.4	0.5	15.0
36	Electric and electronic equipment	–	8	5	0.9	10.5	0.5	0.9	4.3	20.1	12.1	30.8	(D)	0.6	16.1
	Harrison	–	**42**	**19**	**4.3**	**62.6**	**2.5**	**5.2**	**29.2**	**124.0**	**119.3**	**239.3**	**10.9**	**9.5**	**140.4**
35	Machinery, except electrical	–	10	4	1.2	19.1	0.6	1.2	8.4	40.0	23.7	61.3	(D)	(NA)	(NA)
	Hawthorne	–	**103**	**39**	**2.8**	**36.1**	**2.1**	**4.2**	**23.0**	**75.8**	**78.6**	**153.9**	**2.8**	**3.3**	**59.3**
30	Rubber and miscellaneous plastics products	–	9	6	0.6	7.2	0.5	0.9	4.1	18.9	24.5	42.2	0.9	0.7	8.3
	Highland Park	–	**18**	**6**	**0.6**	**8.7**	**0.4**	**0.7**	**4.6**	**18.2**	**9.8**	**28.0**	**0.1**	**0.5**	**9.1**
	Hillsborough twp	–	**21**	**7**	**0.5**	**7.2**	**0.4**	**0.8**	**4.7**	**59.3**	**46.0**	**106.4**	**5.1**	**(NA)**	**(NA)**
	Hillside twp	–	**110**	**46**	**5.6**	**78.0**	**3.6**	**7.0**	**44.0**	**247.4**	**202.9**	**449.5**	**10.6**	**6.2**	**196.0**
30	Rubber and miscellaneous plastics products	–	6	5	0.6	4.6	0.4	0.9	3.2	6.2	10.9	16.8	0.9	0.6	6.3
3079	Miscellaneous plastics products	–	6	5	0.6	4.6	0.4	0.9	3.2	6.2	10.9	16.8	0.9	(NA)	(NA)
34	Fabricated metal products	–	14	6	0.7	12.2	0.5	1.1	8.8	19.3	27.8	47.3	0.4	1.3	33.6
35	Machinery, except electrical	–	20	5	0.6	9.5	0.4	0.8	4.5	25.2	10.5	37.3	(D)	0.6	10.3
	Hoboken	–	**189**	**99**	**8.5**	**101.1**	**6.9**	**14.1**	**74.0**	**161.8**	**519.0**	**674.3**	**8.7**	**11.2**	**282.5**
23	Apparel and other textile products	E5	90	61	3.4	22.8	3.1	5.3	18.6	32.9	13.6	46.4	(D)	4.0	29.5
	Irvington	–	**121**	**32**	**2.7**	**33.3**	**2.0**	**3.9**	**19.8**	**66.7**	**64.1**	**131.0**	**2.1**	**6.1**	**56.1**
34	Fabricated metal products	–	15	3	0.5	5.0	0.4	0.9	3.8	9.5	10.6	20.4	0.5	(NA)	(NA)
	Jersey City	–	**402**	**166**	**19.1**	**220.8**	**13.4**	**24.1**	**133.1**	**649.8**	**633.1**	**1 286.8**	**(D)**	**23.2**	**576.9**
20	Food and kindred products	–	31	10	1.4	17.9	0.9	1.7	9.3	60.7	73.3	134.8	(D)	2.1	48.2
22	Textile mill products	E6	25	5	0.5	4.7	0.4	1.0	3.7	9.8	8.4	17.7	(D)	0.8	11.9
23	Apparel and other textile products	E1	88	49	3.3	26.6	3.0	5.1	20.2	53.3	72.7	125.1	(D)	3.5	47.5
233	Women's and misses' outerwear	E2	43	26	1.6	10.8	1.4	2.2	8.1	26.3	19.6	45.7	(D)	(NA)	(NA)
2337	Women's and misses' suits and coats	E1	15	12	0.7	4.6	0.6	1.0	3.6	15.6	13.3	28.8	(D)	(NA)	(NA)
26	Paper and allied products	–	18	11	1.1	13.3	0.8	1.5	8.1	23.5	26.4	50.4	(D)	1.6	21.8
27	Printing and publishing	E1	44	12	1.0	14.6	0.6	1.2	8.4	25.0	11.9	39.4	(D)	1.6	24.2
28	Chemicals and allied products	–	35	20	3.8	58.6	2.2	4.4	33.4	306.1	277.2	585.0	(D)	4.1	255.1
284	Soaps, cleaners, and toilet goods	–	10	5	2.9	45.0	1.7	3.3	26.5	263.4	196.9	462.3	10.0	(NA)	(NA)
31	Leather and leather products	–	4	4	0.5	4.0	0.4	0.8	2.9	9.6	12.3	20.6	(D)	0.5	4.6
32	Stone, clay, and glass products	–	9	2	0.6	8.5	0.5	1.0	6.6	15.8	16.7	33.1	(D)	0.7	13.4
34	Fabricated metal products	E1	31	11	0.7	10.3	0.6	1.2	7.4	18.9	27.0	45.5	(D)	1.7	33.5
35	Machinery, except electrical	–	22	5	1.0	15.4	0.6	1.1	7.0	23.5	12.5	36.5	(D)	1.5	43.3
38	Instruments and related products	–	7	5	1.0	2.7	0.6	0.4	1.2	9.2	8.7	18.9	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	28	11	1.3	11.2	0.9	1.6	6.7	22.5	22.4	44.3	(D)	1.1	17.1

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Jersey City—Con.														
39	Miscellaneous manufacturing industries—Con.														
399	Miscellaneous manufactures	–	15	5	0.5	4.1	0.4	0.6	2.3	8.3	7.7	15.9	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	11	3	0.5	4.1	–	–	–	–	–	–	–	(NA)	(NA)
	Kearny	–	**130**	**62**	**11.8**	**185.5**	**8.4**	**15.5**	**118.2**	**425.4**	**455.8**	**878.9**	**17.6**	**17.6**	**373.0**
20	Food and kindred products	–	9	5	0.6	9.5	0.4	0.6	5.8	58.7	101.9	159.8	(D)	0.9	33.7
28	Chemicals and allied products	–	19	13	1.1	17.5	0.6	1.3	8.8	63.5	130.1	193.5	(D)	1.3	38.2
30	Rubber and miscellaneous plastics products	E3	15	10	0.7	7.4	0.6	1.3	5.5	17.6	20.3	37.8	(D)	(NA)	(NA)
	Kenilworth	–	**113**	**43**	**5.7**	**81.7**	**3.4**	**6.9**	**39.6**	**149.9**	**123.0**	**269.8**	**9.2**	**5.5**	**105.4**
33	Primary metal industries	–	10	5	0.5	6.7	0.4	0.9	4.9	15.4	22.7	37.3	0.2	(NA)	(NA)
34	Fabricated metal products	–	30	9	1.0	15.4	0.7	1.5	9.7	31.5	27.7	58.1	1.2	0.8	19.5
35	Machinery, except electrical	–	33	9	1.4	17.3	1.0	2.0	10.9	33.9	18.2	50.7	1.5	1.3	24.9
354	Metalworking machinery	–	14	4	0.7	10.1	0.5	1.1	6.9	17.5	8.1	24.8	1.3	(NA)	(NA)
	Keyport	–	**21**	**7**	**0.5**	**5.6**	**0.4**	**0.8**	**3.8**	**16.4**	**33.7**	**49.9**	**1.5**	**0.7**	**8.5**
	Lakewood twp	–	**64**	**22**	**3.3**	**33.2**	**2.8**	**5.6**	**23.4**	**68.3**	**56.7**	**121.8**	**4.1**	**1.8**	**23.2**
36	Electric and electronic equipment	–	9	5	0.8	7.8	0.7	1.4	5.7	11.3	11.3	22.6	(D)	(NA)	(NA)
	Lawrence twp	–	**22**	**12**	**2.7**	**46.5**	**0.8**	**1.6**	**7.8**	**25.3**	**17.9**	**43.1**	**1.0**	**1.7**	**15.5**
	Linden	–	**205**	**94**	**16.9**	**308.6**	**11.6**	**24.3**	**187.8**	**916.8**	**3 716.4**	**4 623.2**	**57.5**	**18.8**	**627.2**
20	Food and kindred products	–	13	6	0.6	9.6	0.4	0.8	6.2	10.4	87.3	100.6	0.6	0.6	16.9
28	Chemicals and allied products	–	18	12	2.8	54.8	1.7	3.6	30.3	226.0	254.4	477.8	34.0	3.1	106.4
286	Industrial organic chemicals	–	5	4	1.8	36.4	1.1	2.5	21.2	182.4	192.2	372.6	(D)	(NA)	(NA)
2869	Industrial organic chemicals, n.e.c.	–	5	4	1.8	36.4	1.1	2.5	21.2	182.4	192.2	372.6	(D)	(NA)	(NA)
341	Metal cans and shipping containers	–	4	4	0.6	9.0	0.4	0.8	5.8	16.0	19.7	35.7	0.5	(NA)	(NA)
3412	Metal barrels, drums, and pails	–	4	4	0.6	9.0	0.4	0.8	5.8	16.0	19.7	35.7	0.5	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	15	6	0.5	6.2	0.5	0.9	4.2	15.1	13.9	28.8	0.2	1.0	13.5
	Little Falls twp	–	**46**	**21**	**2.0**	**23.2**	**1.4**	**2.7**	**13.9**	**46.8**	**48.1**	**94.9**	**3.0**	**4.4**	**43.5**
30	Rubber and miscellaneous plastics products	–	6	5	0.7	7.0	0.5	1.0	3.7	18.5	10.6	28.9	(D)	0.8	10.1
	Little Ferry	–	**48**	**17**	**1.0**	**12.8**	**0.7**	**1.5**	**8.2**	**35.4**	**22.9**	**54.4**	**2.3**	**1.1**	**19.9**
	Livingston twp	–	**51**	**15**	**3.7**	**66.3**	**0.7**	**1.6**	**7.5**	**30.3**	**18.4**	**50.0**	**(D)**	**3.2**	**27.2**
	Lodi	–	**79**	**30**	**2.5**	**30.7**	**1.7**	**3.4**	**15.7**	**58.8**	**85.0**	**144.9**	**5.0**	**3.0**	**46.2**
	Long Branch	–	**43**	**15**	**1.2**	**10.5**	**1.0**	**1.8**	**6.7**	**18.0**	**12.1**	**29.8**	**0.5**	**1.4**	**15.0**
23	Apparel and other textile products	E1	16	10	0.7	5.2	0.6	1.2	4.0	7.8	5.8	13.4	0.2	0.9	7.0
	Maple Shade twp	–	**31**	**9**	**0.7**	**7.9**	**0.4**	**0.7**	**3.6**	**12.0**	**17.5**	**29.6**	**1.1**	**0.8**	**11.3**
	Maplewood twp	–	**38**	**6**	**0.7**	**7.8**	**0.5**	**1.0**	**5.1**	**12.5**	**11.5**	**24.0**	**0.9**	**0.8**	**11.6**
	Marlboro twp	–	**26**	**10**	**0.7**	**8.3**	**0.5**	**0.9**	**4.9**	**14.4**	**15.6**	**31.0**	**0.9**	**0.8**	**12.3**
	Maywood	–	**18**	**10**	**0.8**	**9.3**	**0.5**	**1.0**	**5.6**	**22.2**	**29.9**	**53.3**	**1.9**	**0.8**	**19.6**
	Metuchen	–	**44**	**15**	**1.2**	**15.6**	**1.0**	**1.9**	**9.3**	**61.6**	**45.7**	**102.4**	**1.0**	**1.3**	**35.8**
	Middlesex	–	**92**	**25**	**2.2**	**27.4**	**1.6**	**3.5**	**16.3**	**74.1**	**69.3**	**134.6**	**4.0**	**1.9**	**40.7**

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Midland Park	-	34	6	0.6	7.8	0.4	0.8	4.1	17.5	14.0	31.3	(D)	0.7	17.4
	Milltown	-	11	6	0.9	11.7	0.7	1.4	7.9	16.8	37.8	54.1	1.4	1.5	27.6
	Millville	-	56	22	6.4	81.7	5.2	10.0	59.7	178.6	114.0	292.0	15.4	7.9	110.8
	Monroe twp	-	25	11	1.0	8.2	0.8	1.3	6.0	14.3	7.5	21.5	0.6	0.5	6.8
	Montclair	-	51	10	0.8	9.5	0.5	0.9	3.8	11.1	6.7	17.5	0.5	(NA)	(NA)
	Montvale	-	16	8	1.4	36.2	0.1	0.3	1.7	5.8	6.0	11.8	0.3	(D)	(D)
–	Administrative and auxiliary	-	5	5	1.2	33.4	–	–	–	–	–	–	–	(NA)	(NA)
	Montville twp	-	43	13	1.2	14.8	0.6	1.2	6.5	21.5	17.2	38.4	1.0	0.7	9.3
	Moonachie	-	60	39	4.3	49.5	3.1	6.1	31.3	102.9	111.9	212.7	7.6	3.8	72.7
	Moorestown twp	-	51	19	4.4	78.7	3.0	5.8	50.6	139.4	125.4	264.3	4.7	3.9	105.1
34	Fabricated metal products	-	5	4	0.5	7.0	0.3	0.6	3.6	14.0	11.8	25.6	0.4	(NA)	(NA)
	Morris twp	-	30	16	5.1	110.7	0.7	1.5	8.7	83.8	71.8	155.3	1.7	(D)	(D)
	Morristown	-	28	4	0.9	8.8	0.3	0.6	3.9	16.8	8.6	25.3	0.5	3.9	112.7
27	Printing and publishing	-	13	2	0.5	4.7	0.2	0.2	2.1	9.5	3.6	12.9	0.2	(NA)	(NA)
	Mountainside	-	38	20	1.7	24.1	1.1	2.3	13.8	44.9	35.7	79.0	3.3	1.7	28.6
34	Fabricated metal products	-	6	5	0.6	9.0	0.4	0.9	6.0	18.1	15.7	33.4	2.0	0.9	18.0
	Mount Holly twp	-	27	12	1.0	9.0	0.8	1.4	6.2	14.2	13.8	27.7	1.0	1.0	13.8
22	Textile mill products	E1	5	5	0.5	4.2	0.4	0.9	3.3	6.2	7.0	13.1	(D)	(NA)	(NA)
	Mount Laurel twp	-	19	6	1.2	12.0	0.8	1.5	6.7	19.1	13.1	32.7	1.2	(D)	(D)
35	Machinery, except electrical	E2	7	3	0.9	9.4	0.6	1.2	5.2	13.5	9.0	23.0	1.1	(NA)	(NA)
	Neptune twp	-	31	15	1.0	9.0	0.8	1.5	5.7	15.4	13.9	29.2	0.9	1.0	15.0
	Newark	-	906	367	38.6	489.0	27.6	52.8	297.6	1 058.0	1 345.8	2 396.6	51.2	47.3	803.8
20	Food and kindred products	-	53	27	4.6	73.6	3.3	6.2	50.6	189.5	364.6	553.3	7.4	4.8	97.7
205	Bakery products	-	14	7	1.2	14.4	0.6	1.3	7.3	30.3	23.9	54.2	(D)	(NA)	(NA)
23	Apparel and other textile products	E1	107	61	4.4	31.5	3.9	7.1	24.4	60.4	47.8	107.2	2.0	5.6	49.1
233	Women's and misses' outerwear	E6	58	30	1.7	11.9	1.6	2.8	9.8	17.8	7.4	25.1	(D)	(NA)	(NA)
2335	Women's and misses' dresses	E1	31	12	0.5	2.9	0.4	0.7	2.3	4.4	2.5	6.9	(D)	(NA)	(NA)
2337	Women's and misses' suits and coats	E4	18	12	0.7	5.5	0.7	1.2	4.4	8.9	4.3	13.1	(D)	(NA)	(NA)
26	Paper and allied products	-	35	21	1.9	28.4	1.5	3.1	17.6	55.4	66.9	122.3	4.3	2.0	38.5
265	Paperboard containers and boxes	-	17	13	1.2	19.1	0.9	1.9	11.3	34.1	39.4	73.4	3.6	(NA)	(NA)
27	Printing and publishing	-	72	11	2.4	30.8	1.2	2.2	17.5	71.0	46.0	116.8	1.2	3.1	60.2
28	Chemicals and allied products	-	92	45	4.3	67.7	2.7	5.5	36.8	214.1	329.4	539.1	16.1	5.1	141.7
284	Soaps, cleaners, and toilet goods	-	11	5	0.5	6.3	0.2	0.5	2.4	22.6	19.6	42.2	0.8	(NA)	(NA)
2851	Paints and allied products	-	21	10	0.9	14.4	0.6	1.1	6.8	47.3	52.1	99.5	0.7	(NA)	(NA)
286	Industrial organic chemicals	-	19	11	1.1	20.4	0.8	1.6	12.4	57.9	110.1	165.2	6.6	(NA)	(NA)
2865	Cyclic crudes and intermediates	-	8	6	0.9	16.2	0.6	1.3	9.9	50.4	84.6	131.2	5.6	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	38	20	1.8	20.1	1.3	2.6	11.9	50.3	48.8	98.6	1.9	2.1	35.5

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Newark—Con.													
30	Rubber and miscellaneous plastics products—Con.													
3079	Miscellaneous plastics products	E1	33	18	1.7	18.6	1.2	2.4	10.7	47.8	43.9	91.2	1.8	(NA)	(NA)
33	Primary metal industries	-	30	17	1.7	25.8	1.2	2.4	16.4	44.3	120.1	168.7	5.5	2.5	55.2
34	Fabricated metal products	E1	145	41	3.9	46.8	3.2	6.4	34.2	90.9	56.1	147.2	4.2	4.8	78.4
342	Cutlery, hand tools, and hardware	-	14	6	1.3	16.5	1.1	2.2	12.6	37.1	14.4	51.3	2.2	(NA)	(NA)
344	Fabricated structural metal products	E2	32	11	0.7	8.1	0.5	1.1	5.8	14.4	15.1	30.0	0.5	(NA)	(NA)
346	Metal forgings and stampings	E1	17	6	0.5	5.4	0.4	0.7	4.1	9.2	6.0	15.3	0.7	(NA)	(NA)
347	Metal services, n.e.c.	-	40	5	0.5	6.0	0.4	0.9	4.2	10.6	5.1	15.6	0.2	(NA)	(NA)
35	Machinery, except electrical	E1	79	20	1.0	12.7	0.8	1.5	8.2	22.1	14.5	36.6	1.1	1.1	20.1
36	Electric and electronic equipment	-	49	19	3.3	42.0	2.4	4.5	25.8	83.2	57.4	138.8	1.7	4.8	81.8
37	Transportation equipment	-	13	6	0.6	6.3	0.4	0.8	4.0	23.1	33.6	54.7	0.6	(NA)	(NA)
38	Instruments and related products	-	14	8	1.8	21.0	1.3	2.3	11.6	35.3	22.1	57.5	0.7	1.8	29.1
39	Miscellaneous manufacturing industries	E2	71	28	2.2	22.3	1.7	3.1	14.2	47.4	45.3	91.9	1.2	3.1	40.6
391	Jewelry, silverware, and plated ware	E4	28	7	0.9	9.6	0.7	1.3	6.4	20.7	23.8	44.1	0.2	(NA)	(NA)
3911	Jewelry, precious metal	E4	20	6	0.7	7.6	0.5	1.0	4.9	18.5	20.3	38.5	(D)	(NA)	(NA)
399	Miscellaneous manufactures	-	24	13	0.8	8.4	0.7	1.2	5.0	16.8	11.0	27.6	0.6	(NA)	(NA)
--	Administrative and auxiliary	-	17	10	1.2	23.1	-	-	-	-	-	-	-	(NA)	(NA)
	New Brunswick twp	-	94	47	6.0	92.5	3.3	6.4	39.2	133.0	185.9	310.5	7.4	7.1	127.1
27	Printing and publishing	-	18	3	0.5	6.7	0.3	0.5	2.5	11.9	5.0	16.8	0.5	(NA)	(NA)
33	Primary metal industries	-	3	3	0.5	7.7	0.4	0.9	6.2	23.4	47.3	67.7	0.4	(NA)	(NA)
335	Nonferrous rolling and drawing	-	3	3	0.5	7.7	0.4	0.9	6.2	23.4	47.3	67.7	0.4	(NA)	(NA)
	New Providence	-	25	15	6.5	130.5	1.2	2.5	11.1	57.7	57.1	113.6	1.3	7.3	41.4
	Newton	-	26	8	0.5	5.2	0.3	0.6	2.8	11.9	9.0	21.0	0.3	0.7	9.7
	North Arlington	-	24	5	0.5	5.9	0.3	0.6	2.3	11.9	7.5	18.5	1.0	0.7	11.0
	North Bergen twp	-	207	73	8.3	98.4	6.6	12.6	67.7	210.3	324.0	530.6	6.9	11.1	189.2
22	Textile mill products	E1	26	10	0.7	7.0	0.6	1.2	5.8	11.1	6.3	17.5	(D)	1.2	13.6
23	Apparel and other textile products	E1	78	29	2.8	28.9	2.1	3.8	17.3	70.8	133.3	203.0	(D)	3.1	67.1
2337	Women's and misses' suits and coats	E7	7	6	0.8	6.6	0.7	1.1	4.5	12.6	20.3	33.5	(D)	(NA)	(NA)
36	Electric and electronic equipment	E1	10	6	0.9	9.5	0.8	1.5	6.9	15.3	14.6	29.6	(D)	1.7	14.2
	North Brunswick twp	-	27	14	7.8	138.5	4.5	9.5	68.7	430.0	259.1	674.9	28.0	9.2	315.0
	North Plainfield	-	20	6	1.8	31.7	1.2	2.3	17.1	46.5	28.0	72.8	(D)	0.5	5.7
	Northvale	-	46	25	2.2	25.9	1.5	2.9	13.5	66.5	86.9	153.1	2.1	1.8	40.5
	Norwood	-	31	11	1.0	11.1	0.7	1.3	5.9	19.7	21.2	40.7	2.1	0.6	11.5
	Nutley	-	46	15	10.1	211.9	3.9	8.0	53.5	615.3	221.3	864.7	29.5	10.3	446.8
	Oakland	-	27	14	1.3	15.5	0.8	1.6	8.0	51.2	34.0	83.9	1.6	0.6	8.2
	Old Bridge twp	-	13	8	0.5	5.0	0.3	0.7	3.3	12.3	8.7	20.9	1.3	(NA)	(NA)
	Orange	-	76	22	2.4	30.6	1.3	2.4	12.5	35.7	22.8	58.3	1.2	3.0	37.0

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Palisades Park	-	58	14	1.6	22.6	1.0	1.9	10.5	66.0	100.2	165.8	3.6	2.0	35.7
	Paramus	-	61	25	2.8	39.4	1.2	2.1	11.9	48.0	44.8	89.9	1.8	2.2	27.1
--	Administrative and auxiliary	-	5	4	0.9	15.2	-	-	-	-	-	-	-	(NA)	(NA)
	Parsippany-Troy Hills twp	-	54	34	5.0	78.6	2.2	4.4	22.1	181.1	118.1	293.4	3.9	4.1	116.9
34	Fabricated metal products	-	7	4	0.9	12.5	0.5	1.0	5.8	26.8	11.2	37.3	0.8	1.2	23.7
36	Electric and electronic equipment	-	6	4	0.6	6.8	0.4	0.8	3.2	12.8	10.4	22.9	0.4	(NA)	(NA)
38	Instruments and related products	-	4	4	0.9	12.0	0.5	0.8	4.6	29.9	19.6	48.1	0.8	(NA)	(NA)
--	Administrative and auxiliary	-	11	10	1.5	32.1	-	-	-	-	-	-	-	(NA)	(NA)
	Passaic	-	233	109	10.4	108.9	8.1	15.7	75.4	210.4	215.0	423.6	8.1	14.3	212.5
22	Textile mill products	E5	26	14	1.2	12.1	1.0	2.1	9.4	23.6	24.3	47.6	(D)	1.2	20.5
23	Apparel and other textile products	E2	71	44	3.5	24.8	3.1	5.4	20.3	40.1	29.0	69.3	(D)	3.7	31.4
27	Printing and publishing	E2	20	5	0.9	9.1	0.2	0.4	3.4	14.7	4.8	19.4	0.6	0.6	10.2
30	Rubber and miscellaneous plastics products	E1	11	7	1.1	16.1	0.8	1.8	11.0	29.0	56.1	83.5	2.1	3.0	58.4
34	Fabricated metal products	-	20	8	1.1	16.7	0.9	2.0	12.5	28.9	30.7	60.7	0.6	1.4	27.6
35	Machinery, except electrical	-	14	6	0.5	7.2	0.3	0.6	3.6	19.1	11.1	29.5	0.3	0.7	11.5
	Paterson	-	567	233	18.6	214.0	14.5	27.8	143.1	470.4	502.8	971.8	22.8	23.7	370.7
20	Food and kindred products	-	26	13	0.9	13.6	0.6	1.2	7.2	60.6	80.8	141.3	1.8	1.6	55.2
22	Textile mill products	-	77	43	3.9	50.0	3.1	6.6	38.2	85.6	82.7	168.7	(D)	5.7	83.7
2262	Finishing plants, synthetics	-	23	20	1.9	27.0	1.5	3.3	22.0	45.6	28.8	75.4	3.8	(NA)	(NA)
27	Printing and publishing	E2	42	12	0.7	9.3	0.5	1.1	6.7	14.9	9.5	24.3	(D)	1.1	16.7
28	Chemicals and allied products	E1	45	20	1.3	17.8	0.8	1.6	8.7	57.7	84.7	142.2	3.2	0.9	27.3
30	Rubber and miscellaneous plastics products	E4	26	11	1.2	11.1	0.9	1.7	7.1	26.1	27.0	52.9	3.2	0.6	9.3
34	Fabricated metal products	-	51	15	1.3	19.2	1.1	1.9	14.6	40.5	42.0	82.5	(D)	2.0	29.9
35	Machinery, except electrical	E1	70	17	1.5	20.8	1.1	2.1	12.8	36.2	24.7	60.6	1.1	1.9	31.3
355	Special industry machinery	E1	21	6	0.5	6.9	0.3	0.7	4.0	12.2	9.5	21.4	0.5	(NA)	(NA)
356	General industrial machinery	-	12	3	0.5	7.3	0.4	0.7	4.6	11.9	8.9	20.3	0.2	(NA)	(NA)
36	Electric and electronic equipment	E3	34	16	2.3	22.7	1.8	3.4	15.3	39.4	34.4	73.4	2.4	2.2	25.6
364	Electric lighting and wiring equipment	E2	12	7	0.9	8.9	0.7	1.2	5.3	17.5	13.6	30.8	0.6	(NA)	(NA)
39	Miscellaneous manufacturing industries	E4	34	9	0.5	4.2	0.4	0.8	2.7	8.3	7.4	15.7	(D)	0.7	6.2
	Paulsboro	-	11	8	0.5	5.2	0.4	0.7	3.7	21.3	25.9	47.1	0.8	1.2	4.6
	Pennsauken twp	-	161	71	6.8	82.8	5.0	9.5	53.0	192.6	318.5	508.7	11.5	7.0	148.0
20	Food and kindred products	-	15	12	1.2	13.7	0.9	1.7	8.5	59.9	121.6	181.1	4.3	0.7	28.6
27	Printing and publishing	E1	32	14	1.4	18.2	1.0	1.8	12.1	37.3	20.0	56.9	2.0	0.5	16.0

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
			All establishments		All employees		Production workers							All employees	
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Pennsauken twp—Con.														
34	Fabricated metal products	E1	20	8	0.6	7.4	0.5	0.9	5.0	12.5	15.6	28.1	1.2	1.1	18.1
35	Machinery, except electrical	E2	28	7	0.6	7.6	0.4	0.9	4.7	15.1	8.3	23.2	0.8	0.5	8.5
	Perth Amboy	-	**96**	**43**	**4.5**	**48.4**	**3.5**	**6.6**	**32.7**	**202.6**	**644.1**	**844.4**	**17.2**	**7.8**	**129.6**
23	Apparel and other textile products	-	20	17	1.8	11.0	1.6	2.7	8.8	18.2	12.0	30.2	0.3	1.6	11.5
	Phillipsburg	-	**37**	**21**	**5.5**	**78.8**	**3.3**	**6.5**	**42.6**	**169.3**	**175.5**	**354.9**	**14.6**	**5.5**	**99.3**
23	Apparel and other textile products	-	6	5	0.5	3.5	0.4	0.6	2.6	5.5	4.4	9.9	(Z)	(NA)	(NA)
	Piscataway twp	-	**63**	**43**	**7.0**	**110.7**	**3.2**	**6.1**	**35.5**	**173.9**	**166.4**	**334.9**	**16.4**	**4.3**	**96.0**
28	Chemicals and allied products	-	6	5	1.0	14.0	0.7	1.4	9.7	74.5	48.7	118.3	7.5	0.7	40.7
30	Rubber and miscellaneous plastics products	-	10	9	1.1	11.6	0.9	1.8	8.6	25.7	23.8	49.1	5.2	0.6	9.6
34	Fabricated metal products	-	9	7	1.0	14.1	0.6	1.3	8.5	36.3	31.5	66.9	1.1	1.1	26.4
35	Machinery, except electrical	-	9	5	1.0	13.5	0.5	1.0	5.8	25.2	42.4	68.5	2.1	(NA)	(NA)
--	Administrative and auxiliary	-	13	11	2.5	53.3	-	-	-	-	-	-	-	(NA)	(NA)
	Pitman	-	**21**	**6**	**2.3**	**25.2**	**1.9**	**3.9**	**18.6**	**47.1**	**49.0**	**94.7**	**2.4**	**2.1**	**26.3**
	Plainfield	-	**72**	**23**	**2.2**	**25.8**	**1.7**	**4.7**	**16.5**	**57.9**	**52.2**	**110.3**	**1.4**	**2.6**	**50.5**
	Pleasantville	-	**23**	**7**	**0.5**	**5.7**	**0.3**	**0.6**	**3.4**	**17.2**	**11.0**	**27.8**	**(D)**	**0.5**	**11.9**
	Pompton Lakes	-	**27**	**9**	**1.0**	**16.2**	**0.7**	**1.4**	**9.3**	**34.4**	**17.2**	**51.8**	**1.2**	**1.0**	**17.4**
	Princeton	-	**41**	**10**	**2.1**	**42.5**	**0.9**	**1.7**	**16.8**	**53.3**	**29.4**	**80.5**	**1.5**	**2.0**	**43.0**
	Princeton twp	-	**32**	**12**	**0.7**	**9.4**	**0.4**	**0.7**	**3.6**	**18.2**	**6.3**	**24.2**	**0.7**	**0.9**	**2.8**
	Rahway	-	**82**	**31**	**7.1**	**124.7**	**3.1**	**6.1**	**38.2**	**244.3**	**104.5**	**347.8**	**15.8**	**4.9**	**106.9**
27	Printing and publishing	-	9	3	0.5	5.9	0.4	0.7	4.2	8.1	4.3	12.3	0.1	(NA)	(NA)
	Ramsey	-	**21**	**9**	**0.8**	**10.9**	**0.3**	**0.6**	**3.1**	**11.9**	**9.8**	**21.7**	**0.8**	**0.5**	**6.7**
	Randolph twp	-	**29**	**5**	**0.5**	**5.6**	**0.3**	**0.5**	**3.1**	**12.3**	**11.8**	**23.2**	**0.8**	**(NA)**	**(NA)**
	Red Bank	-	**34**	**8**	**0.5**	**4.8**	**0.4**	**0.5**	**3.0**	**10.9**	**5.8**	**16.2**	**0.4**	**0.9**	**9.9**
	Ridgefield	-	**53**	**26**	**4.3**	**65.7**	**2.5**	**5.2**	**26.8**	**106.3**	**130.0**	**241.6**	**2.7**	**4.3**	**97.6**
26	Paper and allied products	-	5	5	0.5	8.1	0.4	0.7	4.7	12.6	23.4	35.9	(D)	0.6	11.5
28	Chemicals and allied products	-	6	5	1.7	31.7	0.9	1.8	9.1	49.6	69.2	123.1	0.8	1.5	46.4
	Ridgefield Park	-	**26**	**10**	**0.8**	**11.0**	**0.6**	**1.2**	**7.4**	**20.5**	**23.3**	**46.1**	**1.5**	**0.7**	**18.1**
	Rockaway	-	**35**	**10**	**1.0**	**13.0**	**0.7**	**1.4**	**6.7**	**27.0**	**17.0**	**44.4**	**0.8**	**1.4**	**30.3**
34	Fabricated metal products	-	8	4	0.5	5.7	0.4	0.8	3.7	12.5	9.4	22.2	0.3	(NA)	(NA)
	Rockaway twp	-	**21**	**11**	**1.9**	**24.5**	**1.2**	**2.4**	**13.4**	**55.3**	**52.3**	**105.8**	**2.6**	**1.3**	**25.7**
	Roseland	-	**21**	**13**	**1.9**	**25.5**	**1.2**	**2.0**	**12.0**	**60.8**	**72.8**	**130.2**	**2.7**	**1.4**	**30.3**
	Roselle	-	**92**	**29**	**2.1**	**23.3**	**1.6**	**2.9**	**15.7**	**42.1**	**40.5**	**82.6**	**3.7**	**2.6**	**43.5**
27	Printing and publishing	E1	9	5	0.5	3.9	0.4	0.6	2.9	6.9	2.9	9.7	0.5	(NA)	(NA)
	Roselle Park	-	**29**	**6**	**0.6**	**6.8**	**0.5**	**0.9**	**4.7**	**11.0**	**7.9**	**18.9**	**(D)**	**2.4**	**41.6**

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Roxbury twp	–	**27**	**9**	**1.0**	**12.1**	**0.7**	**1.5**	**8.3**	**28.4**	**21.8**	**49.6**	**1.1**	**0.8**	**15.6**
	Rutherford	–	**44**	**11**	**1.4**	**18.3**	**0.9**	**1.6**	**9.6**	**48.0**	**50.6**	**94.4**	**3.1**	**1.6**	**26.5**
	Saddle Brook twp	–	**77**	**34**	**4.0**	**47.3**	**2.8**	**5.6**	**27.7**	**94.8**	**95.4**	**191.3**	**5.8**	**3.4**	**53.9**
27	Printing and publishing	E7	6	4	0.7	7.6	0.5	1.0	5.6	13.8	10.8	24.6	1.0	(NA)	(NA)
34	Fabricated metal products	–	15	9	1.3	14.0	1.0	2.0	9.9	34.3	34.5	68.6	4.0	0.5	9.7
	Salem	–	**12**	**8**	**1.6**	**17.2**	**1.4**	**2.4**	**14.5**	**36.2**	**28.6**	**65.4**	**(D)**	**(D)**	**(D)**
	Sayreville	–	**33**	**13**	**4.5**	**77.5**	**3.2**	**6.2**	**46.0**	**235.2**	**273.2**	**500.9**	**9.0**	**3.6**	**111.7**
28	Chemicals and allied products	–	5	5	1.7	27.0	1.2	2.4	18.4	92.9	118.6	206.6	3.8	(NA)	(NA)
	Secaucus	–	**53**	**29**	**2.9**	**32.0**	**1.8**	**3.2**	**16.8**	**60.9**	**142.8**	**202.8**	**1.9**	**2.4**	**43.2**
23	Apparel and other textile products	–	8	6	0.5	4.5	0.4	0.8	3.3	9.8	19.2	28.7	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	7	5	0.6	5.6	–	–	–	–	–	–	–	(NA)	(NA)
	Somerville	–	**56**	**18**	**3.0**	**52.7**	**1.3**	**2.4**	**14.4**	**67.0**	**34.9**	**101.0**	**7.5**	**4.8**	**85.1**
	South Brunswick twp	–	**47**	**29**	**3.4**	**52.0**	**1.8**	**3.7**	**22.5**	**165.9**	**170.8**	**335.1**	**4.8**	**3.3**	**73.8**
20	Food and kindred products	–	3	3	0.5	5.1	0.4	0.8	3.7	41.0	47.8	89.6	(D)	(NA)	(NA)
26	Paper and allied products	–	3	3	0.6	9.7	0.4	1.0	6.3	26.5	38.4	63.6	1.5	(NA)	(NA)
--	Administrative and auxiliary	–	6	5	0.5	10.8	–	–	–	–	–	–	–	(NA)	(NA)
	South Plainfield	–	**124**	**59**	**5.4**	**66.8**	**3.8**	**7.8**	**38.6**	**154.9**	**225.8**	**379.3**	**5.8**	**4.3**	**89.3**
30	Rubber and miscellaneous plastics products	E1	10	9	0.8	9.7	0.7	1.4	7.2	22.1	17.8	39.4	1.5	0.6	10.6
34	Fabricated metal products	E1	21	9	0.7	9.0	0.5	1.0	5.2	15.1	27.6	42.6	0.7	0.6	13.5
344	Fabricated structural metal products	E1	8	5	0.5	6.4	0.3	0.7	3.7	10.4	23.6	33.9	(D)	(NA)	(NA)
35	Machinery, except electrical	E1	24	12	0.9	13.2	0.6	1.2	7.9	26.4	14.5	40.4	0.7	0.7	14.0
	South River	–	**40**	**17**	**1.2**	**8.1**	**1.1**	**1.7**	**7.2**	**13.9**	**6.7**	**20.5**	**(D)**	**1.2**	**10.5**
23	Apparel and other textile products	–	22	15	1.0	6.3	1.0	1.5	5.9	9.3	2.4	11.7	(D)	1.0	6.5
	Springfield twp	–	**62**	**27**	**2.5**	**37.2**	**1.6**	**3.1**	**18.5**	**57.0**	**75.2**	**131.2**	**3.7**	**2.2**	**35.3**
34	Fabricated metal products	–	9	8	0.7	9.8	0.6	1.2	7.6	17.9	11.7	29.2	0.9	0.5	9.3
	Summit	–	**35**	**8**	**2.6**	**48.4**	**0.4**	**0.9**	**6.3**	**137.1**	**34.9**	**173.5**	**(D)**	**3.1**	**89.3**
	Teaneck twp	–	**39**	**14**	**1.5**	**15.4**	**0.7**	**1.4**	**5.8**	**22.8**	**18.4**	**41.0**	**0.6**	**1.0**	**9.7**
--	Administrative and auxiliary	–	5	3	0.5	6.5	–	–	–	–	–	–	–	(NA)	(NA)
	Tinton Falls	–	**15**	**10**	**1.0**	**12.6**	**0.5**	**1.1**	**4.4**	**21.1**	**20.3**	**40.9**	**1.0**	**(NA)**	**(NA)**
38	Instruments and related products	–	3	3	0.5	5.1	0.3	0.6	2.5	9.8	6.8	16.6	0.3	(NA)	(NA)
382	Measuring and controlling devices	–	3	3	0.5	5.1	0.3	0.6	2.5	9.8	6.8	16.6	0.3	(NA)	(NA)
	Totowa	–	**48**	**27**	**3.8**	**51.9**	**2.1**	**4.1**	**26.8**	**154.7**	**118.8**	**273.2**	**9.2**	**3.2**	**72.8**
28	Chemicals and allied products	–	7	4	0.5	6.8	0.3	0.6	3.0	22.3	25.5	49.3	5.2	0.7	20.1
	Union twp	–	**191**	**94**	**10.5**	**142.6**	**6.3**	**12.4**	**76.6**	**424.0**	**294.1**	**712.1**	**12.6**	**11.3**	**297.5**

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Union twp—Con.														
33	Primary metal industries	-	9	5	0.6	9.7	0.4	0.8	5.6	18.2	51.9	71.0	1.1	0.6	11.9
34	Fabricated metal products	-	25	13	2.0	26.1	1.3	2.6	14.8	52.4	58.4	108.4	1.6	2.4	44.7
345	Screw machine products, bolts, etc.	-	4	3	0.8	11.3	0.4	1.0	6.2	14.5	8.8	22.5	0.5	(NA)	(NA)
346	Metal forgings and stampings	-	5	4	0.5	4.1	0.4	0.6	3.1	10.3	6.9	17.4	0.2	(NA)	(NA)
3469	Metal stampings, n.e.c.	-	5	4	0.5	4.1	0.4	0.6	3.1	10.3	6.9	17.4	0.2	(NA)	(NA)
35	Machinery, except electrical	E1	43	18	1.1	18.0	0.8	1.6	12.0	26.3	26.3	53.2	1.6	1.2	17.2
354	Metalworking machinery	-	16	8	0.7	10.6	0.6	1.1	7.7	14.1	13.3	28.1	0.7	(NA)	(NA)
36	Electric and electronic equipment	-	13	12	1.4	14.6	0.9	1.7	7.6	35.7	24.9	60.1	(D)	1.3	25.2
364	Electric lighting and wiring equipment	-	5	5	0.9	10.3	0.5	1.0	4.8	26.3	19.0	44.7	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	19	6	0.5	6.6	0.4	0.8	4.5	11.5	16.1	27.0	0.2	0.5	6.9
--	Administrative and auxiliary	-	14	10	1.6	24.3	-	-	-	-	-	-	-	(NA)	(NA)
	Union City	-	**293**	**61**	**4.6**	**39.8**	**3.9**	**6.6**	**29.3**	**67.7**	**45.2**	**113.8**	**2.3**	**5.7**	**65.9**
22	Textile mill products	E3	28	10	0.6	4.8	0.5	1.1	3.8	7.2	4.0	11.2	(D)	0.9	10.5
225	Knitting mills	E2	20	8	0.5	3.9	0.4	0.9	3.0	5.8	2.9	8.6	(D)	(NA)	(NA)
23	Apparel and other textile products	E4	181	28	2.0	14.8	1.8	3.0	12.1	23.6	13.7	37.4	(D)	2.6	24.7
233	Women's and misses' outerwear	E4	100	22	1.4	9.3	1.3	2.0	8.0	14.5	5.2	19.7	(D)	(NA)	(NA)
2337	Women's and misses' suits and coats	E1	17	11	0.5	4.0	0.5	0.8	3.5	6.5	2.0	8.5	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	E4	72	5	0.5	4.8	0.5	0.9	3.6	8.1	7.2	15.2	(D)	(NA)	(NA)
	Vineland	-	**124**	**52**	**7.5**	**80.9**	**6.2**	**11.4**	**60.1**	**176.5**	**136.8**	**308.9**	**10.4**	**7.6**	**94.0**
20	Food and kindred products	-	22	8	1.2	12.6	1.0	1.8	10.0	41.5	52.2	92.9	1.0	1.5	18.2
23	Apparel and other textile products	-	14	9	1.7	12.2	1.6	2.7	10.7	20.1	9.2	28.8	(D)	1.9	12.7
32	Stone, clay, and glass products	-	26	17	2.9	37.3	2.3	4.5	28.1	71.9	35.2	105.0	(D)	2.8	40.9
	Wall twp	-	**25**	**9**	**0.8**	**8.7**	**0.6**	**1.2**	**5.2**	**21.6**	**23.3**	**44.2**	**1.1**	**0.6**	**9.4**
	Wallington	-	35	12	1.2	12.4	1.0	1.9	8.8	23.2	21.2	44.5	0.8	(D)	(D)
	Wanaque	-	19	6	0.6	6.7	0.4	0.9	4.3	19.9	22.3	41.2	(D)	1.2	20.9
	Washington	-	16	8	1.1	12.1	1.0	1.8	9.2	27.2	31.0	58.5	3.0	1.7	30.5
	Wayne twp	-	**86**	34	6.6	**114.9**	**2.2**	**4.6**	**26.2**	136.5	**112.8**	**245.4**	**7.2**	**6.4**	**87.5**
30	Rubber and miscellaneous plastics products	-	8	5	1.2	14.5	0.9	1.9	10.4	39.2	30.9	68.4	2.3	0.8	12.7
35	Machinery, except electrical	-	13	4	0.8	10.9	0.4	0.9	5.0	35.5	26.5	59.4	0.6	0.7	17.5
--	Administrative and auxiliary	-	11	8	3.4	72.5	-	-	-	-	-	-	-	(NA)	(NA)
	West Caldwell	-	31	**18**	**2.3**	30.6	**1.6**	**3.3**	**18.0**	**54.9**	**53.6**	**108.4**	**2.6**	**1.8**	**35.5**
	West Deptford twp	-	**20**	**10**	**1.0**	**14.5**	**0.7**	**1.4**	**8.6**	**57.7**	**70.3**	**127.1**	**2.8**	0.6	15.9
	West New York	-	**294**	56	**4.8**	**40.4**	**4.3**	**8.0**	30.4	67.9	**87.7**	**152.2**	(D)	**5.4**	**60.6**
22	Textile mill products	E5	29	14	1.0	9.0	0.9	1.8	7.1	15.1	15.4	30.0	(D)	0.9	11.9
225	Knitting mills	E5	14	8	0.6	4.6	0.5	1.0	3.9	7.1	2.9	9.9	(D)	(NA)	(NA)
2253	Knit outerwear mills	E5	8	8	0.5	4.1	0.5	0.9	3.5	6.1	2.2	8.2	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	West New York—Con.													
23	Apparel and other textile products	E4	226	36	2.4	19.2	2.1	3.9	15.4	31.9	24.5	56.3	(D)	3.0	30.6
233	Women's and misses' outerwear	E7	64	18	1.0	6.3	0.9	1.5	5.3	10.6	5.0	15.6	(D)	(NA)	(NA)
2335	Women's and misses' dresses	E8	45	9	0.5	3.5	0.5	0.9	2.8	6.2	4.0	10.1	(D)	(NA)	(NA)
2397	Schiffli machine embroideries	E2	97	5	0.6	7.4	0.6	1.2	5.9	13.0	9.6	22.6	0.3	(NA)	(NA)
	West Orange	-	54	14	1.3	18.2	0.8	1.5	7.4	37.3	23.8	81.4	2.0	2.4	22.3
	West Paterson	-	29	9	4.4	76.7	3.0	5.8	50.3	92.5	49.5	151.6	(D)	0.5	8.1
	Westwood	-	42	8	0.5	6.1	0.4	0.7	3.2	13.2	6.9	19.9	1.4	0.5	8.0
	Wharton	-	15	5	1.6	22.3	1.1	2.2	14.9	47.1	38.9	86.6	2.8	1.4	34.5
	Winslow twp	-	14	7	0.9	11.9	0.7	1.5	8.8	37.8	28.7	66.7	(D)	0.6	17.9
	Woodbridge twp	-	111	61	8.4	117.4	4.9	9.9	60.9	276.5	416.0	696.1	14.3	7.7	203.6
27	Printing and publishing	-	12	4	0.5	5.4	0.1	0.2	1.3	11.4	3.8	15.1	0.3	(NA)	(NA)
28	Chemicals and allied products	-	19	15	1.6	24.1	1.1	2.5	15.4	105.6	191.7	297.0	8.7	1.3	69.9
30	Rubber and miscellaneous plastics products	-	6	4	0.5	5.3	0.4	0.8	3.3	9.1	10.7	20.4	0.7	(NA)	(NA)
3079	Miscellaneous plastics products	-	6	4	0.5	5.3	0.4	0.8	3.3	9.1	10.7	20.4	0.7	(NA)	(NA)
32	Stone, clay, and glass products	-	7	5	0.6	9.2	0.5	0.9	6.6	21.7	16.3	38.2	0.8	0.6	11.8
34	Fabricated metal products	-	6	5	0.9	15.9	0.7	1.5	11.9	40.2	92.6	135.0	1.6	1.1	25.5
--	Administrative and auxiliary	-	7	6	1.5	23.7	-	-	-	-	-	-	-	(NA)	(NA)
	Wood-Ridge	-	20	9	2.1	39.0	1.0	1.9	12.9	66.7	68.0	135.7	1.8	3.6	83.7
	Wyckoff twp	-	22	9	0.9	10.1	0.7	1.3	6.5	20.3	32.4	52.9	0.7	0.7	13.1

Note: "Place" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NEW JERSEY	15696	753	3	527	1920	357	324	422	2006	986	87	751	107	571	314	1555	2173	919	225	431	754	511
1 TO 4 EMPLOYEES	5382	242	2	121	606	158	123	67	1057	251	16	169	27	189	71	475	930	273	103	127	301	74
5 TO 9 EMPLOYEES	2230	91	-	65	254	67	53	54	301	108	19	86	11	92	36	245	386	118	20	70	106	48
10 TO 19 EMPLOYEES	2309	91	-	92	269	60	44	45	254	137	16	116	16	81	48	303	351	138	25	55	107	61
20 TO 49 EMPLOYEES	2695	135	-	113	431	49	61	84	207	190	18	154	16	107	62	288	286	161	33	86	123	91
50 TO 99 EMPLOYEES	1449	83	-	73	233	15	28	72	95	122	7	117	14	41	35	119	114	84	16	41	68	72
100 TO 249 EMPLOYEES	1042	77	1	47	105	6	10	82	61	102	5	82	16	36	39	81	55	85	17	26	33	76
250 TO 499 EMPLOYEES	370	23	-	15	19	1	2	11	22	42	2	24	5	14	17	33	32	34	5	13	10	46
500 TO 999 EMPLOYEES	139	7	-	1	3	1	3	6	7	18	2	3	2	6	5	8	12	12	3	8	6	26
1000 TO 2499 EMPLOYEES	63	4	-	-	-	-	-	1	1	12	2	-	-	4	1	2	7	10	1	5	-	13
2500 EMPLOYEES AND OVER	17	-	-	-	-	-	-	-	1	4	-	-	-	1	-	1	-	4	2	-	-	4
ATLANTIC COUNTY	211	31	-	3	34	16	10	1	29	5	-	10	-	19	1	8	14	5	6	5	12	2
1 TO 19 EMPLOYEES	145	20	-	2	17	14	7	1	26	2	-	5	-	11	-	6	10	3	4	4	11	2
20 TO 99 EMPLOYEES	45	6	-	-	12	2	3	-	2	1	-	3	-	6	1	2	4	1	1	1	-	-
100 TO 249 EMPLOYEES	14	4	-	1	2	-	-	-	1	1	-	1	-	1	-	-	-	1	1	-	1	-
250 EMPLOYEES AND OVER	7	1	-	-	3	-	-	-	-	1	-	1	-	1	-	-	-	1	-	-	-	-
BERGEN COUNTY	2579	103	-	97	283	54	46	75	430	179	7	99	15	61	34	244	357	154	32	80	116	113
1 TO 19 EMPLOYEES	1675	55	-	49	207	43	31	22	346	99	4	56	4	41	18	152	277	90	20	41	78	42
20 TO 99 EMPLOYEES	644	33	-	33	59	9	11	31	64	51	3	32	7	19	9	74	64	49	10	28	31	27
100 TO 249 EMPLOYEES	180	11	-	10	15	1	3	18	15	23	-	10	3	1	4	9	12	9	1	5	5	25
250 EMPLOYEES AND OVER	80	4	-	5	2	1	1	4	5	6	-	1	1	-	3	9	4	6	1	6	2	19
BURLINGTON COUNTY	486	22	-	18	32	14	13	11	61	25	3	8	2	32	15	55	89	37	12	12	13	12
1 TO 19 EMPLOYEES	317	11	-	4	15	9	9	9	49	17	3	6	1	23	7	32	66	23	8	8	9	8
20 TO 99 EMPLOYEES	119	8	-	10	13	5	3	-	12	4	-	2	1	7	4	17	15	10	1	2	3	2
100 TO 249 EMPLOYEES	30	3	-	2	3	-	1	1	-	2	-	-	-	1	1	4	5	3	2	1	-	1
250 EMPLOYEES AND OVER	20	-	-	2	1	-	-	1	-	2	-	-	-	1	3	2	3	1	1	1	1	1
CAMDEN COUNTY	806	51	-	9	36	20	17	28	143	43	8	23	5	35	17	109	136	44	11	24	26	21
1 TO 19 EMPLOYEES	553	26	-	6	22	15	10	16	113	22	8	14	4	18	9	82	111	24	6	15	20	12
20 TO 99 EMPLOYEES	183	17	-	2	13	5	5	4	23	16	-	6	1	9	6	21	21	15	3	7	3	6
100 TO 249 EMPLOYEES	50	6	-	1	1	-	2	7	6	2	-	3	-	4	1	3	3	4	2	2	2	1
250 EMPLOYEES AND OVER	20	2	-	-	-	-	-	1	1	3	-	-	-	4	1	3	1	1	-	-	1	2
CAPE MAY COUNTY	76	11	-	-	8	1	-	-	17	2	-	3	1	3	-	5	8	-	7	1	8	1
1 TO 19 EMPLOYEES	64	8	-	-	7	1	-	-	14	2	-	3	1	2	-	5	7	-	6	-	7	1
20 TO 99 EMPLOYEES	10	2	-	-	1	-	-	-	3	-	-	-	-	1	-	-	1	-	1	1	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
CUMBERLAND COUNTY	254	42	-	3	26	7	4	8	25	11	1	8	-	50	1	16	27	5	9	4	5	2
1 TO 19 EMPLOYEES	150	23	-	-	9	6	3	3	20	8	1	3	-	23	-	12	23	3	5	4	3	1
20 TO 99 EMPLOYEES	64	13	-	1	7	1	1	3	4	2	-	3	-	15	1	4	2	2	3	-	1	1
100 TO 249 EMPLOYEES	24	3	-	-	8	-	-	2	1	1	-	1	-	7	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	16	3	-	2	2	-	-	-	-	-	-	1	-	5	-	-	1	-	1	-	1	-
ESSEX COUNTY	2006	92	-	21	171	22	54	58	256	145	8	101	27	47	51	266	285	141	21	67	133	40
1 TO 19 EMPLOYEES	1296	54	-	15	80	19	35	27	214	81	6	56	19	30	23	193	214	84	11	39	80	16
20 TO 99 EMPLOYEES	546	24	-	6	75	3	17	23	31	47	2	38	5	17	21	58	63	31	8	19	42	16
100 TO 249 EMPLOYEES	105	8	-	-	13	-	1	6	8	11	-	6	2	-	5	10	2	18	1	3	9	2
250 EMPLOYEES AND OVER	59	6	-	-	3	-	1	2	3	6	-	1	1	-	2	5	6	8	1	6	2	6
GLOUCESTER COUNTY	264	21	-	3	26	16	8	3	31	16	4	13	1	16	6	31	31	13	7	3	12	3
1 TO 19 EMPLOYEES	168	15	-	-	10	14	7	1	26	6	2	9	1	14	3	19	22	4	6	2	6	1
20 TO 99 EMPLOYEES	70	3	-	1	14	2	1	2	3	5	-	3	-	2	1	11	8	6	-	1	6	1
100 TO 249 EMPLOYEES	18	3	-	2	2	-	-	-	2	3	-	1	-	-	2	-	1	1	1	-	-	-
250 EMPLOYEES AND OVER	8	-	-	-	-	-	-	-	-	2	2	-	-	-	-	1	-	2	-	-	-	1
HUDSON COUNTY	1857	102	2	142	789	20	34	47	112	97	10	44	18	32	32	96	96	53	12	15	76	28
1 TO 19 EMPLOYEES	1202	66	2	88	543	17	25	16	86	44	3	18	6	22	18	65	74	28	5	8	53	15
20 TO 99 EMPLOYEES	513	20	-	45	225	3	6	20	21	37	6	19	5	5	10	27	17	16	3	4	16	8
100 TO 249 EMPLOYEES	100	11	-	8	16	-	2	11	3	12	1	6	5	3	2	2	2	5	3	2	4	2
250 EMPLOYEES AND OVER	42	5	-	1	5	-	1	-	2	4	-	1	2	2	2	2	3	4	1	1	3	3
HUNTERDON COUNTY	148	12	-	2	5	5	1	5	19	9	-	6	2	8	5	13	25	12	3	4	6	6
1 TO 19 EMPLOYEES	90	3	-	2	4	4	1	-	17	6	-	3	1	3	2	6	19	8	2	3	5	1
20 TO 99 EMPLOYEES	40	7	-	-	1	-	-	1	-	3	-	3	-	3	3	4	5	4	1	1	-	4
100 TO 249 EMPLOYEES	14	-	-	-	-	1	-	3	2	-	-	-	1	2	-	3	1	-	-	-	-	1
250 EMPLOYEES AND OVER	4	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
MERCER COUNTY	488	29	-	4	14	10	12	11	106	22	1	29	3	40	5	30	64	21	4	21	29	33
1 TO 19 EMPLOYEES	303	17	-	2	6	10	9	6	83	8	1	10	2	21	2	20	48	8	4	14	20	12
20 TO 99 EMPLOYEES	111	9	-	2	6	-	3	3	19	8	-	9	-	9	1	7	9	7	-	5	8	6
100 TO 249 EMPLOYEES	41	3	-	-	2	-	-	2	2	4	-	8	-	8	-	2	2	1	-	-	-	7
250 EMPLOYEES AND OVER	33	-	-	-	-	-	-	-	2	2	-	2	1	2	2	1	5	5	-	2	1	8
MIDDLESEX COUNTY	1147	46	1	18	89	27	23	41	124	108	14	83	8	46	36	103	152	52	14	30	54	78
1 TO 19 EMPLOYEES	607	21	-	15	34	23	15	10	97	36	6	30	2	26	15	49	113	32	11	14	34	24
20 TO 99 EMPLOYEES	355	14	-	2	44	4	8	15	21	47	3	41	4	14	9	36	27	14	-	11	14	27
100 TO 249 EMPLOYEES	119	8	1	-	8	-	-	12	2	15	3	10	2	4	9	15	5	4	2	3	3	13
250 EMPLOYEES AND OVER	66	3	-	1	3	-	-	4	4	10	2	2	-	2	3	3	7	2	1	2	3	14
MONMOUTH COUNTY	616	29	-	6	68	19	10	13	83	21	4	37	3	20	13	52	75	76	21	21	34	11
1 TO 19 EMPLOYEES	435	16	-	5	27	16	8	7	75	14	-	16	2	14	8	46	65	52	18	12	28	6
20 TO 99 EMPLOYEES	130	9	-	1	35	3	2	4	6	2	4	15	-	4	3	3	8	17	2	5	6	1
100 TO 249 EMPLOYEES	33	2	-	-	6	-	-	1	1	2	-	6	1	-	2	2	-	4	-	3	-	3
250 EMPLOYEES AND OVER	18	2	-	-	-	-	-	1	1	3	-	-	-	2	-	1	2	3	1	1	-	1
MORRIS COUNTY	774	13	-	10	13	21	9	21	110	39	2	52	4	32	8	92	148	70	11	41	27	51
1 TO 19 EMPLOYEES	515	8	-	4	10	16	8	10	92	19	1	27	2	26	4	64	121	43	7	20	24	9
20 TO 99 EMPLOYEES	153	1	-	4	2	4	1	5	14	10	1	15	1	5	1	20	19	10	3	15	2	20
100 TO 249 EMPLOYEES	62	4	-	1	1	1	-	5	2	3	-	8	-	-	2	4	4	11	1	4	1	10
250 EMPLOYEES AND OVER	44	-	-	1	-	-	-	1	2	7	-	2	1	1	1	4	4	6	-	2	-	12
OCEAN COUNTY	242	9	-	-	27	15	8	1	42	12	3	7	-	24	5	14	28	14	15	6	11	1
1 TO 19 EMPLOYEES	189	7	-	-	20	10	7	1	36	8	2	5	-	18	4	14	23	8	12	5	9	-
20 TO 99 EMPLOYEES	41	2	-	-	7	3	1	-	4	1	1	1	-	6	1	-	5	3	3	-	2	1
100 TO 249 EMPLOYEES	6	-	-	-	-	1	-	-	2	1	-	1	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	2	-	1	-	-
PASSAIC COUNTY	1558	55	-	152	173	35	39	46	164	109	5	85	9	38	23	148	236	89	11	31	72	38
1 TO 19 EMPLOYEES	922	28	-	65	67	29	27	24	123	62	4	40	5	27	10	92	177	50	9	20	49	14
20 TO 99 EMPLOYEES	500	22	-	65	91	6	11	15	34	34	1	31	2	10	9	45	49	26	2	9	23	15
100 TO 249 EMPLOYEES	91	2	-	19	13	-	-	7	5	8	-	7	1	1	3	8	8	5	-	1	-	3
250 EMPLOYEES AND OVER	45	3	-	3	2	-	1	-	2	5	-	7	1	-	1	3	2	8	-	1	-	6
SALEM COUNTY	59	11	-	-	8	4	1	-	6	9	1	2	-	5	-	4	3	-	2	1	2	-
1 TO 19 EMPLOYEES	32	7	-	-	-	3	1	-	5	1	-	1	-	3	-	4	3	-	2	1	1	-
20 TO 99 EMPLOYEES	18	3	-	-	6	1	-	-	-	5	1	1	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	1	-	-	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-	-	-	-	1	-
SOMERSET COUNTY	360	9	-	3	13	13	3	8	39	29	6	32	1	26	11	30	67	24	3	18	13	12
1 TO 19 EMPLOYEES	220	5	-	3	5	8	3	1	31	7	4	16	1	17	7	23	49	12	3	10	10	5
20 TO 99 EMPLOYEES	93	4	-	-	7	5	-	5	5	12	-	12	-	4	3	6	13	6	-	5	3	3
100 TO 249 EMPLOYEES	22	-	-	-	1	-	-	1	2	5	1	3	-	2	1	1	2	1	-	1	-	1
250 EMPLOYEES AND OVER	25	-	-	-	-	-	-	1	1	5	1	1	-	3	-	-	3	5	-	2	-	3
SUSSEX COUNTY	113	-	-	3	13	5	2	2	16	7	1	9	-	8	2	5	22	6	-	5	7	-
1 TO 19 EMPLOYEES	86	-	-	2	9	4	1	1	13	6	1	6	-	7	1	4	18	5	-	4	4	-
20 TO 99 EMPLOYEES	21	-	-	1	3	1	1	1	2	1	-	2	-	-	1	1	3	1	-	1	2	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
UNION COUNTY	1498	59	-	28	76	25	27	36	175	88	7	90	7	21	46	223	292	90	22	38	92	56
1 TO 19 EMPLOYEES	874	31	-	14	32	17	11	10	134	44	3	43	3	12	23	129	219	44	7	25	60	13
20 TO 99 EMPLOYEES	438	19	-	12	35	6	15	20	29	22	3	32	3	8	13	66	62	24	8	11	26	24
100 TO 249 EMPLOYEES	111	7	-	1	9	2	-	5	5	8	-	10	1	1	6	18	6	15	3	1	6	7
250 EMPLOYEES AND OVER	75	2	-	1	-	-	1	1	7	14	1	5	-	-	4	10	5	7	4	1	-	12
WARREN COUNTY	154	6	-	5	16	8	3	7	18	10	2	10	1	8	3	11	16	13	2	4	6	3
1 TO 19 EMPLOYEES	78	3	-	2	5	7	2	1	12	4	2	4	-	4	1	6	8	8	2	3	3	1
20 TO 99 EMPLOYEES	50	2	-	1	8	1	-	4	5	4	-	3	1	3	-	5	5	3	-	1	3	1
100 TO 249 EMPLOYEES	12	-	-	2	3	-	1	1	-	-	-	1	-	1	1	-	-	2	-	-	-	-
250 EMPLOYEES AND OVER	14	1	-	-	-	-	-	1	1	2	-	2	-	-	1	-	5	-	-	-	-	1

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

New Mexico

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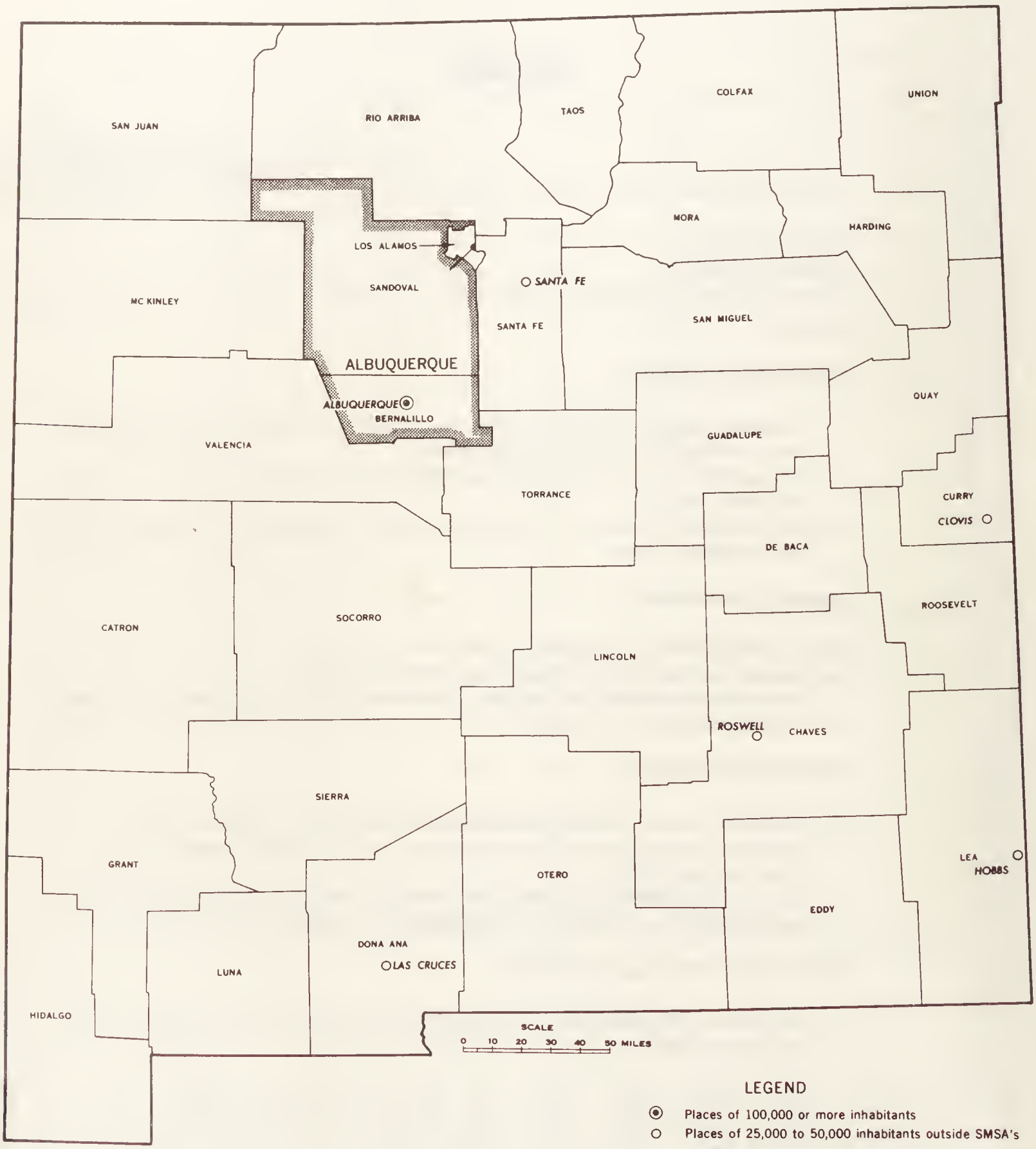
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NEW MEXICO



LEGEND

- Places of 100,000 or more inhabitants
- Places of 25,000 to 50,000 inhabitants outside SMSA's
- Standard Metropolitan Statistical Areas (SMSA's)

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 29.0 thousand persons were employed in New Mexico's manufacturing establishments. This figure represented an increase of 23 percent from the 1972 figure of 23.6 thousand workers.

The total value added by manufacture for the State amounted to $734 million in 1977, an increase of approximately 105 percent from the 1972 figure of $358 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were food and kindred products, electric and electronic equipment, lumber and wood products, and apparel and other textile products. They accounted for approximately 47 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 48 percent of the State's employment.

The most important counties in the State ranked by employment were Bernalillo, Chaves, Dona Ana, and Santa Fe. They accounted for approximately 68 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Bernalillo, Chaves, Dona Ana, and San Juan accounted for approximately 66 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 8 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
New Mexico:						
1977	29.0	296.9	28.7	292.0	.3	4.9
1972	23.6	157.2	23.2	152.5	.4	4.7
1967	16.9	98.6	16.6	95.2	.3	3.4
1963	15.3	82.1	15.2	79.7	.2	2.3
STANDARD METROPOLITAN STATISTICAL AREA						
Albuquerque:						
1977	14.9	152.0	14.9	151.5	(Z)	.5
1972	12.0	84.8	11.9	83.3	.1	1.5

(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
	NEW MEXICO														
1977 CENSUS.	1 323	258	29.0	296.9	20.9	39.5	183.8	733.5	1 289.4	2 009.2	75.0	.15	100	100	19 596.9
1976 ASM....	(NA)	(NA)	30.2	273.0	23.1	42.1	175.3	635.2	902.8	1 534.0	119.5	.16	104	96	18 753.0
1975 ASM....	(NA)	(NA)	27.1	237.1	20.0	37.7	146.8	511.2	818.4	1 303.1	177.9	.15	93	94	18 302.2
1974 ASM....	(NA)	(NA)	28.0	220.2	20.0	37.5	136.4	491.9	807.1	1 272.9	144.2	.14	97	102	19 844.8
1973 ASM....	(NA)	(NA)	25.6	182.5	18.6	35.1	110.6	416.1	659.2	1 060.5	59.0	.13	88	102	19 897.9
1972 CENSUS.	926	277	23.6	157.2	17.2	32.9	96.0	358.0	567.2	910.4	30.8	.12	81	98	19 028.7
1971 ASM....	(NA)	(NA)	22.7	141.7	17.0	32.8	88.8	272.9	496.6	765.5	43.9	.12	78	94	18 363.1
1970 ASM....	(NA)	(NA)	21.6	124.7	15.9	30.3	78.6	227.3	488.0	712.8	12.2	.11	74	99	19 217.2
1969 ASM....	(NA)	(NA)	18.4	110.0	13.4	27.2	69.7	207.2	462.2	666.9	19.2	.09	63	103	20 035.5
1968 ASM....	(NA)	(NA)	16.4	100.1	11.7	24.1	60.7	194.3	386.3	579.1	12.0	.08	57	100	19 527.6
1967 CENSUS.	749	169	16.9	98.6	11.3	22.3	55.6	204.5	284.3	486.3	10.6	.09	58	99	19 323.2
1966 ASM....	(NA)	(NA)	15.8	89.3	10.6	21.1	50.5	148.1	354.0	499.1	11.5	.08	54	98	19 024.5
1965 ASM....	(NA)	(NA)	16.1	87.6	10.6	21.1	48.8	134.5	318.1	463.5	12.7	.09	55	92	18 010.2
1964 ASM....	(NA)	(NA)	15.9	83.5	10.3	20.9	47.5	150.2	284.6	406.7	10.0	.09	55	89	17 268.5
1963 CENSUS.	742	169	15.3	82.1	10.2	20.7	47.2	149.6	(NA)	(NA)	10.4	.09	53	87	16 958.4

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a repreaentative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	NEW MEXICO								
1977 CENSUS.....	10 232	72	1 887	4.65	64	79	25 282	40	18.58
1976 ASM.....	9 040	76	1 823	4.16	59	77	21 033	43	15.09
1975 ASM.....	8 749	74	1 885	3.89	63	81	18 863	46	13.56
1974 ASM.....	7 864	71	1 875	3.64	63	81	17 568	45	13.12
1973 ASM.....	7 129	73	1 887	3.15	62	79	16 254	44	11.85
1972 CENSUS.....	6 661	73	1 913	2.92	62	80	15 169	44	10.88
1971 ASM.....	6 242	75	1 929	2.71	65	83	12 022	52	8.32
1970 ASM.....	5 773	74	1 906	2.59	68	86	10 523	55	7.50
1969 ASM.....	5 978	73	2 030	2.56	69	86	11 261	53	7.62
1968 ASM.....	6 104	71	2 060	2.52	67	84	11 848	52	8.06
1967 CENSUS.....	5 834	67	1 973	2.49	58	79	12 101	48	9.17
1966 ASM.....	5 652	67	1 991	2.39	71	89	9 373	60	7.02
1965 ASM.....	5 441	66	1 991	2.31	69	88	8 354	65	6.37
1964 ASM.....	5 252	65	2 029	2.27	70	91	9 447	56	7.19
1963 CENSUS.....	5 366	67	2 029	2.28	(NA)	(NA)	9 778	55	7.23

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	1 323	926
With 1 to 19 employees	do	1 065	699
With 20 to 99 employees	do	200	184
With 100 employees or more	do	58	43
All employees, average for year[1]	1,000	29.0	23.6
Payroll for year, all employees[1]	mil. dollars	296.9	157.2
Production workers:			
Average for year	1,000	20.9	17.2
March	do	20.4	16.3
May	do	20.9	16.9
August	do	21.2	17.7
November	do	21.0	18.0
Hours	millions	39.5	32.9
January to March	do	9.5	7.7
April to June	do	10.0	8.1
July to September	do	9.9	8.4
October to December	do	10.1	8.7
Wages	mil. dollars	183.8	96.0
Cost of materials, etc.[2]	do	1 289.4	567.2
Materials, parts, containers, etc., consumed	do	1 145.7	520.7
Resales	do	63.0	27.0
Fuels consumed	do	37.4	6.1
Purchased electric energy	do	25.0	5.9
Contract work	do	18.2	7.5
Value of shipments, including resales[2]	do	2 009.2	910.4
Value of resales	do	74.9	35.9
Value added by manufacture	do	733.5	358.0
Manufacturers' inventories:			
Beginning of year	do	192.9	82.6
Finished products	do	56.8	19.3
Work in process	do	63.3	36.8
Materials, supplies, fuel, etc.	do	72.8	26.5
End of year	do	214.8	90.3
Finished products	do	61.9	22.0
Work in process	do	72.0	37.7
Materials, supplies, fuel, etc.	do	80.9	30.6
Capital expenditures for plant and equipment	do	81.0	32.0
New capital expenditures	do	75.0	30.8
New buildings and other structures	do	21.6	9.7
New machinery and equipment	do	53.3	21.1
Used capital expenditures	do	6.0	1.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total	(15.1)	22
Beginning of year	765.5	2	Buildings and other structures	(7.4)	42
New capital expenditures	75.6	7	Machinery and equipment	(7.7)	19
Used capital expenditures	(6.8)	32			
Retirements	(17.3)	27	Depreciation charges during 1977:		
End of year	830.7	2	Total	59.2	4
			Buildings and other structures	7.9	5
Buildings and other structures:			Machinery and equipment	51.3	5
Beginning of year	158.5	4			
New capital expenditures	20.9	9			
Used capital expenditures	(1.7)	63	Supplemental labor costs:		
Retirements	(1.8)	32	Total	45.8	2
End of year	179.3	4	Legal costs	22.3	3
			Voluntary costs	23.6	3
Machinery and equipment:					
Beginning of year	607.0	3			
New capital expenditures	54.7	8	Purchased services:		
Automobiles, trucks, etc., for highway use	(3.8)	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	(.6)	(NA)	Buildings and other structures	(1.4)	38
All other	(36.3)	(NA)	Response coverage ratio (percent)	60	(X)
New machinery and equipment, n.s.k.	14.0	(NA)	Machinery	(8.3)	32
Used capital expenditures	(5.2)	37	Response coverage ratio (percent)	66	(X)
Retirements	(15.6)	30	Cost of purchased communication services	(3.5)	31
End of year	651.2	2	Response coverage ratio (percent)	51	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
New Mexico	-	**1 323**	**258**	**29.0**	**296.9**	**20.9**	**39.5**	**183.8**	**733.5**	**1 289.4**	**2 009.2**	**75.0**	**23.6**	**358.0**
STANDARD METROPOLITAN STATISTICAL AREAS														
Albuquerque	E1	621	120	14.9	152.0	10.8	20.6	94.4	363.1	341.9	695.1	27.0	12.0	179.3
COUNTIES														
Bernalillo	E1	592	114	14.6	148.4	10.6	20.1	91.8	354.9	329.8	675.0	26.5	11.3	171.5
Catron	-	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Chaves	-	56	18	2.2	19.3	1.6	3.0	11.5	48.4	152.9	201.2	1.3	1.6	21.7
Colfax	E4	29	6	0.3	2.8	0.3	0.5	1.8	6.0	6.8	12.7	0.4	0.4	2.3
Curry	-	33	8	0.8	8.3	0.6	1.1	6.0	23.3	111.3	134.1	0.7	0.7	17.0
De Baca	-	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dona Ana	-	59	17	1.6	14.4	1.1	2.1	8.3	56.9	34.0	89.1	3.4	1.4	19.6
Eddy	-	43	11	1.0	14.3	0.7	1.4	8.1	42.0	156.4	198.4	(D)	0.4	4.8
Grant	-	15	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Guadalupe	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Harding	-	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hidalgo	-	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lea	E1	58	8	1.0	11.2	0.6	1.1	5.3	25.9	24.7	48.7	(D)	0.7	11.8
Lincoln	E5	11	1	0.1	0.9	(Z)	0.1	0.3	1.6	1.2	2.8	0.1	0.1	1.5
Los Alamos	E6	6	-	(Z)	0.4	(Z)	(Z)	0.2	0.8	0.6	1.3	0.1	0.1	0.3
Luna	E1	11	2	0.4	2.6	0.3	0.6	1.7	4.0	11.0	14.6	0.3	0.4	3.9
McKinley	-	32	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	17.1
Mora	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Otero	-	34	6	1.0	7.9	0.8	1.2	6.1	13.8	20.7	34.9	1.1	(D)	(D)
Quay	E1	10	2	0.1	1.0	0.1	0.2	0.6	2.6	7.1	9.6	(D)	0.3	3.6
Rio Arriba	E1	24	4	0.3	3.0	0.3	0.5	2.2	5.7	7.8	13.3	(D)	0.4	4.6
Roosevelt	-	19	5	0.3	3.0	0.2	0.4	1.5	8.7	29.8	38.1	2.2	0.2	2.8
Sandoval	E3	29	6	0.4	3.6	0.3	0.6	2.5	8.2	12.2	20.1	0.5	0.6	7.8
San Juan	-	55	13	0.9	10.0	0.5	0.9	5.4	25.8	56.9	80.7	11.9	1.2	17.6
San Miguel	E6	11	2	0.1	1.1	0.1	0.2	0.7	2.4	2.4	4.8	(Z)	0.1	1.7
Santa Fe	-	70	12	1.2	9.6	0.6	1.2	5.2	17.5	12.9	30.3	(D)	0.7	12.3
Sierra	E0	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Socorro	-	10	1	0.1	0.6	(Z)	0.1	0.3	1.2	1.5	2.6	0.1	0.1	1.0
Taos	E7	39	1	0.2	1.6	0.2	0.3	1.1	3.9	3.6	7.4	0.5	0.2	2.1
Torrance	E0	3	-	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	0.1	0.2	(Z)	(D)	(D)
Union	E1	5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Valencia	E3	44	4	0.3	2.3	0.2	0.3	1.6	6.7	5.4	12.2	0.3	0.2	2.8
CITIES														
Alamogordo	-	28	6	1.0	7.7	0.8	1.2	6.0	13.4	20.4	34.3	1.1	(D)	(D)
Albuquerque	E1	483	93	12.4	122.3	9.1	17.0	76.8	288.7	271.4	554.2	17.1	9.6	139.2
Carlsbad	-	25	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Clovis	-	31	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Farmington	-	44	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Hobbs	-	41	6	0.8	9.3	0.5	0.9	4.0	22.5	14.7	37.0	(D)	0.5	8.0
Las Cruces	-	46	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	15.0
Roswell	-	53	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Santa Fe	E2	63	10	0.8	6.7	0.5	0.9	3.8	13.8	10.5	24.1	(D)	0.7	11.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	**1 323**	**258**	**29.0**	**296.9**	**20.9**	**39.5**	**183.8**	**733.5**	**1 289.4**	**2 009.2**	**75.0**	**23.6**	**358.0**
20	**Food and kindred products**	-	**141**	**48**	**4.3**	**42.3**	**2.7**	**5.2**	**23.1**	**104.4**	**382.8**	**486.1**	**9.6**	**3.8**	**68.3**
201	Meat products	-	20	9	1.3	14.3	1.1	2.2	10.2	27.3	231.3	258.3	1.4	1.1	18.6
2011	Meat packing plants	-	19	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
202	Dairy products	-	13	6	0.5	4.9	0.3	0.5	3.0	12.3	43.7	55.8	0.8	0.5	13.5
2026	Fluid milk	-	12	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
203	Preserved fruits and vegetables	-	5	2	0.2	1.1	0.1	0.2	0.6	2.1	2.3	4.4	(D)	(NA)	(NA)
204	Grain mill products	-	19	4	0.3	2.6	0.2	0.4	1.5	8.0	33.3	40.8	(D)	0.3	5.4
2048	Prepared feeds, n.e.c.	-	15	3	0.2	2.2	0.1	0.3	1.2	7.1	31.9	38.5	(D)	AA	(D)
205	Bakery products	E1	21	5	0.7	7.5	0.3	0.7	3.3	16.9	15.9	32.8	(D)	0.7	11.4
2051	Bread, cake, and related products	E1	21	5	0.7	7.5	0.3	0.7	3.3	16.9	15.9	32.8	(D)	0.7	11.4
208	Beverages	-	21	13	0.7	7.8	0.3	0.5	2.2	23.5	38.2	61.6	1.6	0.7	11.3
2086	Bottled and canned soft drinks	-	21	13	0.7	7.8	0.3	0.5	2.2	23.5	38.2	61.6	1.6	0.7	11.3
209	Miscellaneous foods and kindred products	E1	34	5	0.3	2.4	0.2	0.4	1.4	9.6	8.4	17.9	0.3	0.3	4.9
2099	Food preparations, n.e.c.	E1	23	5	0.3	2.0	0.2	0.3	1.1	8.4	8.0	16.4	0.2	0.3	3.9
22	**Textile mill products**	-	**7**	**1**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**CC**	**(D)**
225	Knitting mills	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2251	Women's hosiery, except socks	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
23	**Apparel and other textile products**	-	**34**	**15**	**3.0**	**18.6**	**2.6**	**4.9**	**15.1**	**52.0**	**48.3**	**100.5**	**0.5**	**1.9**	**16.2**
2311	Men's and boys' suits and coats	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
232	Men's and boys' furnishings	-	9	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2322	Men's and boys' underwear	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2328	Men's and boys' work clothing	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
233	Women's and misses' outerwear	E2	7	3	0.2	1.2	0.2	0.3	1.0	2.0	0.9	3.0	(D)	AA	(D)
24	**Lumber and wood products**	**E2**	**131**	**37**	**3.0**	**27.5**	**2.6**	**5.2**	**22.1**	**56.0**	**73.2**	**126.7**	**6.8**	**2.8**	**31.6**
2411	Logging camps and logging contractors	E8	34	4	0.3	2.5	0.2	0.4	2.2	6.3	8.1	14.1	(D)	0.3	3.6
242	Sawmills and planing mills	-	35	17	1.7	15.0	1.5	2.9	12.5	26.4	33.3	57.9	(D)	1.5	18.3
2421	Sawmills and planing mills, general	-	33	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
243	Millwork, plywood, and structural members	E1	45	12	0.6	6.1	0.5	1.1	4.6	14.8	23.4	38.0	0.5	0.6	6.6
2431	Millwork	E1	22	8	0.4	3.8	0.3	0.7	2.9	10.3	18.4	28.6	0.3	0.4	5.7
2434	Wood kitchen cabinets	E1	17	3	0.2	1.4	0.1	0.2	1.1	2.4	1.6	4.0	0.1	(NA)	(NA)
245	Wood buildings and mobile homes	E2	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2452	Prefabricated wood buildings	E2	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
249	Miscellaneous wood products	E9	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
25	**Furniture and fixtures**	**E4**	**34**	**3**	**0.2**	**1.6**	**0.2**	**0.3**	**1.1**	**3.1**	**2.8**	**5.9**	**(D)**	**BB**	**(D)**
27	**Printing and publishing**	-	**198**	**26**	**2.6**	**26.2**	**1.2**	**2.0**	**11.5**	**62.1**	**22.1**	**84.2**	**2.5**	**1.9**	**31.6**
2711	Newspapers	-	56	17	1.8	17.6	0.6	1.2	6.5	45.0	12.5	57.6	1.2	1.3	23.2
275	Commercial printing	E1	99	8	0.6	5.8	0.4	0.7	3.7	11.6	7.6	19.1	(D)	0.4	6.1
2751	Commercial printing, letterpress	E3	61	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.9
2752	Commercial printing, lithographic	-	37	5	0.3	3.7	0.3	0.4	2.3	6.8	4.7	11.4	0.4	0.2	3.2
28	**Chemicals and allied products**	-	**37**	**10**	**0.8**	**11.7**	**0.5**	**1.0**	**5.8**	**18.9**	**53.5**	**70.8**	**9.3**	**0.4**	**10.6**
287	Agricultural chemicals	-	7	3	0.3	4.4	0.2	0.5	3.3	0.9	34.8	34.1	5.5	(NA)	(NA)
2873	Nitrogenous fertilizers	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
289	Miscellaneous chemical products	-	9	3	0.3	4.4	0.1	0.3	1.0	10.4	8.0	18.4	(D)	(NA)	(NA)
2899	Chemical preparations, n.e.c.	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
29	**Petroleum and coal products**	–	**11**	5	**0.5**	**8.6**	**0.3**	**0.7**	**4.6**	**52.6**	**230.9**	**282.1**	**(D)**	**0.3**	**10.9**
2911	Petroleum refining	–	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
30	**Rubber and miscellaneous plastics products**	**E4**	**21**	**3**	**0.2**	**1.3**	**0.1**	**0.3**	**0.9**	**3.0**	**3.2**	**6.3**	**0.2**	**0.3**	**3.2**
3079	Miscellaneous plastics products	E4	20	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
31	**Leather and leather products**	**E1**	9	3	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**BB**	**(D)**
317	Handbags and other personal leather goods	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3172	Personal leather goods	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
32	**Stone, clay, and glass products**	**E1**	**118**	**32**	**1.9**	**23.0**	**1.4**	**2.9**	**15.4**	**56.6**	**55.2**	**111.9**	**7.5**	**1.4**	**31.7**
327	Concrete, gypsum, and plaster products	–	80	27	1.5	18.2	1.1	2.3	12.1	37.6	42.5	80.1	(D)	1.1	21.6
3271	Concrete block and brick	E1	12	8	0.4	4.8	0.2	0.5	2.6	8.1	8.9	16.9	1.0	AA	(D)
3272	Concrete products, n.e.c.	E1	23	4	0.2	2.9	0.2	0.4	2.1	7.2	4.7	11.8	0.6	(NA)	(NA)
3273	Ready-mixed concrete	–	42	13	0.8	9.1	0.6	1.1	6.0	18.0	23.3	41.3	2.1	0.6	10.9
33	**Primary metal industries**	–	**21**	**7**	**EE**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**BB**	**(D)**
333	Primary nonferrous metals	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3331	Primary copper	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
336	Nonferrous foundries	E1	10	3	0.2	1.2	0.1	0.3	0.9	2.3	1.6	3.6	0.1	(NA)	(NA)
34	**Fabricated metal products**	**E1**	**74**	**13**	**1.3**	**14.4**	**0.8**	**1.5**	**7.9**	**32.8**	**27.3**	**55.7**	**4.0**	**0.9**	**10.9**
344	Fabricated structural metal products	E2	39	6	0.7	7.9	0.5	0.9	5.0	11.6	15.9	27.8	(D)	0.9	9.8
3441	Fabricated structural metal	–	6	4	0.4	5.0	0.3	0.5	3.0	6.9	9.6	16.8	0.7	0.4	4.9
349	Miscellaneous fabricated metal products	–	15	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3494	Valves and pipe fittings	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
35	**Machinery, except electrical**	**E2**	**148**	**18**	**1.6**	**18.5**	**1.2**	**2.2**	**11.6**	**36.4**	**26.7**	**62.4**	**3.0**	**1.8**	**28.8**
353	Construction and related machinery	E2	16	4	0.4	4.6	0.3	0.5	2.6	10.7	9.8	20.0	1.1	0.2	1.9
3532	Mining machinery	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3533	Oil field machinery	E2	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
356	General industrial machinery	E1	13	1	0.2	2.3	0.1	0.3	1.5	5.1	4.8	9.9	0.3	(NA)	(NA)
3569	General industrial machinery, n.e.c.	–	7	1	0.2	2.0	0.1	0.2	1.3	4.6	4.5	9.1	0.3	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	101	8	0.7	8.2	0.6	1.0	5.8	14.0	8.3	22.2	1.3	0.4	6.2
3599	Machinery, except electrical, n.e.c.	E2	101	8	0.7	8.2	0.6	1.0	5.8	14.0	8.3	22.2	1.3	0.4	6.2
36	**Electric and electronic equipment**	–	**43**	**12**	**3.4**	**30.9**	**2.7**	**4.7**	**21.0**	**78.9**	**50.3**	**127.6**	**(D)**	**2.8**	**42.0**
363	Household appliances	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3634	Electric housewares and fans	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
366	Communication equipment	–	10	4	2.4	22.4	1.8	3.4	14.6	60.8	29.3	89.0	(D)	1.7	26.7
3661	Telephone and telegraph apparatus	–	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3662	Radio and TV communication equipment	–	9	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
367	Electronic components and accessories	E4	17	2	0.2	2.0	0.2	0.3	1.4	3.6	2.0	5.3	(D)	CC	(D)
3679	Electronic components, n.e.c.	E3	15	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
37	**Transportation equipment**	–	**20**	5	**1.5**	**21.6**	**1.0**	**2.0**	**11.1**	**39.0**	**46.5**	**85.3**	**2.4**	**1.5**	**18.9**
371	Motor vehicles and equipment	–	10	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3711	Motor vehicles and car bodies	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts	–	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3724	Aircraft engines and engine parts	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
376	Guided missiles, space vehicles, parts	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3761	Guided missiles and space vehicles	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
38	**Instruments and related products**	**E3**	**20**	**4**	**0.5**	**5.1**	**0.2**	**0.4**	**2.4**	**9.4**	**5.4**	**14.7**	**0.6**	**0.6**	**7.0**
382	Measuring and controlling devices	E3	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.1
3829	Measuring and controlling devices, n.e.c.	–	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
39	**Miscellaneous manufacturing industries**	**E3**	**238**	13	**1.8**	**15.7**	**1.4**	**2.4**	**9.7**	33.4	**25.1**	**57.2**	**0.9**	**1.0**	**10.2**
391	Jewelry, silverware, and plated ware	E2	135	9	1.3	10.9	1.0	1.7	6.7	23.7	18.3	40.9	(D)	0.6	6.4
3911	Jewelry, precious metal	E2	114	9	1.3	10.5	0.9	1.6	6.5	22.8	17.1	38.8	(D)	CC	(D)
399	Miscellaneous manufactures	E5	68	3	0.3	3.3	0.3	0.4	1.9	6.2	4.0	10.1	(D)	0.2	2.3
3999	Manufacturing industries, n.e.c.	E7	47	1	0.2	1.8	0.2	0.2	1.1	3.5	2.6	6.1	(D)	(NA)	(NA)
--	**Administrative and auxiliary**	–	**14**	**3**	0.3	**4.9**	–	–	–	–	–	–	–	**(NA)**	**(NA)**

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Albuquerque SMSA	–	**621**	**120**	**14.9**	**152.0**	**10.8**	**20.6**	**94.4**	**363.1**	**341.9**	**695.1**	**27.0**	**12.0**	**179.3**
20	Food and kindred products	–	36	22	2.0	18.9	1.1	2.2	9.4	49.1	96.4	145.5	3.8	1.7	29.9
205	Bakery products	–	8	3	0.5	5.0	0.2	0.4	2.1	11.2	11.6	22.8	(D)	0.5	7.7
2051	Bread, cake, and related products	–	8	3	0.5	5.0	0.2	0.4	2.1	11.2	11.6	22.8	(D)	0.5	7.7
208	Beverages	–	7	6	0.4	3.8	0.1	0.3	1.0	11.6	13.0	24.7	0.5	(NA)	(NA)
2086	Bottled and canned soft drinks	–	7	6	0.4	3.8	0.1	0.3	1.0	11.6	13.0	24.7	0.5	(NA)	(NA)
24	Lumber and wood products	E2	50	22	1.4	14.3	1.2	2.6	11.3	30.1	44.4	72.1	4.6	1.0	12.3
2431	Millwork	E2	13	7	0.3	3.1	0.3	0.6	2.4	7.0	16.0	22.8	0.2	(NA)	(NA)
27	Printing and publishing	–	78	12	1.3	14.6	0.6	1.1	6.8	36.1	14.2	50.3	(D)	0.8	14.5
275	Commercial printing	E1	45	8	0.4	4.2	0.3	0.5	2.6	8.4	5.3	13.8	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	38	11	1.0	12.3	0.8	1.6	8.8	34.1	29.7	64.1	5.2	0.6	16.9
327	Concrete, gypsum, and plaster products	–	20	8	0.7	8.8	0.6	1.2	6.3	19.2	19.3	38.5	(D)	0.4	8.0
344	Fabricated structural metal products	E1	23	3	0.5	5.6	0.3	0.6	3.4	7.3	12.4	20.1	0.5	(NA)	(NA)
35	Machinery, except electrical	E4	72	6	0.7	8.3	0.5	1.0	5.2	14.2	8.7	22.9	(D)	1.5	24.5
359	Miscellaneous machinery, except electrical	E2	53	3	0.4	5.0	0.3	0.6	3.4	8.4	4.1	12.5	(D)	0.3	3.7
3599	Machinery, except electrical, n.e.c.	E2	53	3	0.4	5.0	0.3	0.6	3.4	8.4	4.1	12.5	(D)	0.3	3.7
36	Electric and electronic equipment	–	30	9	2.8	26.0	2.2	4.0	17.2	71.8	34.3	104.2	(D)	1.7	31.0
39	Miscellaneous manufacturing industries	E3	158	9	1.5	12.5	1.1	1.9	7.7	27.3	20.1	46.4	(D)	0.7	7.2
391	Jewelry, silverware, and plated ware	E2	101	7	1.2	10.1	0.9	1.5	6.3	21.9	16.0	36.9	(D)	(NA)	(NA)
3911	Jewelry, precious metal	E2	85	7	1.2	9.7	0.8	1.5	6.1	21.1	15.0	35.1	(D)	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Bernalillo County	-	**592**	**114**	**14.6**	**148.4**	**10.6**	**20.1**	**91.8**	**354.9**	**329.8**	**675.0**	**26.5**	**11.3**	**171.5**
205	Bakery products	-	8	3	0.5	5.0	0.2	0.4	2.1	11.2	11.6	22.8	(D)	0.5	7.7
2051	Bread, cake, and related products	-	8	3	0.5	5.0	0.2	0.4	2.1	11.2	11.6	22.8	(D)	(NA)	(NA)
24	Lumber and wood products	E2	41	19	1.3	12.4	1.1	2.3	9.8	25.3	36.5	59.7	4.2	0.8	8.6
34	Fabricated metal products	-	44	8	0.9	10.6	0.6	1.1	5.7	26.1	21.5	43.5	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	E2	153	9	1.4	12.3	1.1	1.9	7.6	26.8	19.9	45.7	0.6	0.7	7.2
	Chaves County	-	**56**	**18**	**2.2**	**19.3**	**1.6**	**3.0**	**11.5**	**48.4**	**152.9**	**201.2**	**1.3**	**1.6**	**21.7**
20	Food and kindred products	-	13	7	1.0	9.8	0.7	1.4	5.5	17.9	111.5	129.4	(D)	0.7	10.6
	Curry County	-	**33**	**8**	**0.8**	**8.3**	**0.6**	**1.1**	**6.0**	**23.3**	**111.3**	**134.1**	**0.7**	**0.7**	**17.0**
	Dona Ana County	-	**59**	**17**	**1.6**	**14.4**	**1.1**	**2.1**	**8.3**	**56.9**	**34.0**	**89.1**	**3.4**	**1.4**	**19.6**
	Eddy County	-	**43**	**11**	**1.0**	**14.3**	**0.7**	**1.4**	**8.1**	**42.0**	**156.4**	**198.4**	**(D)**	**0.4**	**4.8**
	Lea County	-	**58**	**8**	**1.0**	**11.2**	**0.6**	**1.1**	**5.3**	**25.9**	**24.7**	**48.7**	**(D)**	**0.7**	**11.8**
	Otero County	-	**34**	**6**	**1.0**	**7.9**	**0.8**	**1.2**	**6.1**	**13.8**	**20.7**	**34.9**	**1.1**	**(D)**	**(D)**
	San Juan County	-	**55**	**13**	**0.9**	**10.0**	**0.5**	**0.9**	**5.4**	**25.8**	**56.9**	**80.7**	**11.9**	**1.2**	**17.6**
	Santa Fe County	-	**70**	**12**	**1.2**	**9.6**	**0.6**	**1.2**	**5.2**	**17.5**	**12.9**	**30.3**	**(D)**	**0.7**	**12.3**

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Alamogordo	-	**28**	**6**	**1.0**	**7.7**	**0.8**	**1.2**	**6.0**	**13.4**	**20.4**	**34.3**	**1.1**	**(D)**	**(D)**

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Albuquerque	-	**483**	**93**	**12.4**	**122.3**	**9.1**	**17.0**	**76.8**	**288.7**	**271.4**	**554.2**	**17.1**	**9.6**	**139.2**
20	Food and kindred products	-	29	19	1.7	15.4	1.0	1.9	8.0	40.3	85.1	125.3	2.1	(NA)	(NA)
24	Lumber and wood products	E3	32	14	1.0	10.2	0.9	2.0	8.2	21.0	27.7	46.6	4.0	0.6	6.1
27	Printing and publishing	-	73	12	1.3	14.6	0.6	1.1	6.8	36.0	14.1	50.1	1.3	(NA)	(NA)
32	Stone, clay, and glass products	-	24	8	0.6	7.4	0.5	1.0	5.2	16.4	14.9	31.3	1.5	(NA)	(NA)
327	Concrete, gypsum, and plaster products	-	12	6	0.5	6.7	0.4	0.9	4.7	14.2	13.3	27.5	1.4	(NA)	(NA)
35	Machinery, except electrical	E4	52	3	0.5	5.4	0.3	0.6	3.3	10.1	6.6	16.7	0.7	1.3	22.7
36	Electric and electronic equipment	-	23	6	2.4	21.6	1.9	3.4	14.8	63.8	30.3	92.4	2.5	(NA)	(NA)
39	Miscellaneous manufacturing industries	E2	133	8	1.4	11.7	1.0	1.8	7.3	25.6	18.5	43.0	0.6	(NA)	(NA)
391	Jewelry, silverware, and plated ware	E2	85	6	1.1	9.4	0.8	1.5	6.0	20.7	14.7	34.3	0.2	(NA)	(NA)
	Hobbs	-	**41**	6	**0.8**	**9.3**	**0.5**	**0.9**	**4.0**	**22.5**	**14.7**	**37.0**	**(D)**	**0.5**	**8.0**
	Santa Fe	-	63	**10**	**0.8**	**6.7**	**0.5**	**0.9**	**3.8**	**13.8**	**10.5**	**24.1**	**(D)**	**0.7**	**11.8**

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred producta; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glaas products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NEW MEXICO	1323	141	-	7	34	131	34	4	198	37	11	21	9	118	21	74	148	43	20	20	238	14
1 TO 4 EMPLOYEES	730	59	-	5	16	68	23	1	123	18	5	11	5	52	9	41	78	20	10	13	169	4
5 TO 9 EMPLOYEES	178	12	-	-	2	13	7	2	29	7	1	5	1	22	3	5	23	7	2	1	33	3
10 TO 19 EMPLOYEES	157	22	-	1	1	13	1	1	20	2	-	2	-	12	2	15	29	4	3	2	23	4
20 TO 49 EMPLOYEES	139	26	-	-	4	21	3	-	15	4	1	3	-	21	3	7	11	5	1	2	10	2
50 TO 99 EMPLOYEES	61	10	-	-	3	10	-	-	6	4	3	-	2	8	2	3	6	1	1	1	1	-
100 TO 249 EMPLOYEES	36	11	-	-	2	5	-	-	4	2	-	-	-	3	-	3	1	2	1	-	1	1
250 TO 499 EMPLOYEES	14	-	-	-	5	-	-	-	-	-	1	-	1	-	2	-	-	3	1	1	-	-
500 TO 999 EMPLOYEES	7	1	-	1	1	1	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-
1000 TO 2499 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BERNALILLO COUNTY	592	35	-	3	17	41	21	2	77	14	5	10	3	36	7	44	68	29	10	13	153	4
1 TO 19 EMPLOYEES	478	14	-	3	12	22	20	2	65	12	4	8	2	25	6	36	63	20	7	10	144	3
20 TO 99 EMPLOYEES	80	12	-	-	2	15	1	-	9	2	1	2	-	8	1	5	5	4	2	3	7	1
100 TO 249 EMPLOYEES	24	9	-	-	-	4	-	-	2	-	-	-	-	3	-	3	-	2	-	-	1	-
250 EMPLOYEES AND OVER	10	-	-	-	3	-	-	-	1	-	-	-	1	-	-	-	-	3	1	-	1	-
CATRON COUNTY	7	-	-	-	-	6	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHAVES COUNTY	56	13	-	-	2	1	2	1	13	3	-	2	1	3	-	3	3	3	1	1	3	1
1 TO 19 EMPLOYEES	38	6	-	-	1	1	2	1	12	2	-	1	1	1	-	3	3	1	-	1	1	1
20 TO 99 EMPLOYEES	14	5	-	-	-	-	-	-	1	1	-	1	-	2	-	-	-	2	-	-	2	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
COLFAX COUNTY	29	6	-	-	-	7	2	-	5	-	-	-	-	1	-	3	1	1	-	-	3	-
1 TO 19 EMPLOYEES	23	6	-	-	-	5	1	-	5	-	-	-	-	-	-	1	1	1	-	-	3	-
20 TO 99 EMPLOYEES	6	-	-	-	-	2	1	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-
CURRY COUNTY	33	11	-	-	1	2	-	-	4	-	-	-	1	4	-	2	5	-	1	-	1	1
1 TO 19 EMPLOYEES	25	8	-	-	-	2	-	-	3	-	-	-	1	3	-	1	4	-	1	-	1	1
20 TO 99 EMPLOYEES	6	2	-	-	-	-	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OE BACA COUNTY	3	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-
OONA ANA COUNTY	59	11	-	1	1	3	1	-	10	-	-	1	-	5	-	3	8	3	1	-	10	1
1 TO 19 EMPLOYEES	42	6	-	-	-	3	1	-	7	-	-	1	-	-	-	3	7	3	-	-	10	1
20 TO 99 EMPLOYEES	15	5	-	-	1	-	-	-	3	-	-	-	-	5	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EDDY COUNTY	43	7	-	-	-	2	1	-	6	5	1	1	-	7	-	3	8	-	-	-	1	1
1 TO 19 EMPLOYEES	32	6	-	-	-	2	1	-	5	2	-	1	-	5	-	2	6	-	-	-	1	1
20 TO 99 EMPLOYEES	9	1	-	-	-	-	-	-	1	2	-	-	-	2	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
GRANT COUNTY	15	3	-	-	-	-	-	-	4	1	-	-	-	3	2	-	1	-	-	-	-	1
1 TO 19 EMPLOYEES	9	3	-	-	-	-	-	-	3	-	-	-	-	2	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	-	1	1	-	-	-	1	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
GUADALUPE COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
HARDING COUNTY	3	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
HIDALGO COUNTY	3	-	-	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
LEA COUNTY	58	5	-	-	1	1	-	-	9	5	-	1	-	7	-	3	20	2	-	-	3	1
1 TO 19 EMPLOYEES	50	5	-	-	-	1	-	-	8	3	-	1	-	6	-	2	18	2	-	-	3	1
20 TO 99 EMPLOYEES	6	-	-	-	-	-	-	-	1	1	-	-	-	1	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
LINCOLN COUNTY	11	1	-	-	-	1	-	-	4	-	-	-	-	1	1	1	-	1	-	-	1	-
1 TO 19 EMPLOYEES	10	1	-	-	-	1	-	-	4	-	-	-	-	-	1	1	-	1	-	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
LOS ALAMOS COUNTY	6	-	-	-	-	-	-	-	1	-	-	1	-	2	-	-	-	-	-	2	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	-	-	-	1	-	-	1	-	2	-	-	-	-	-	2	-	-
LUNA COUNTY	11	2	-	-	1	-	-	-	1	-	-	-	-	-	1	1	4	-	1	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	-	-	-	-	1	-	-	-	-	-	1	1	4	-	1	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC KINLEY COUNTY	32	2	-	-	-	2	1	-	3	1	1	-	-	2	1	-	-	-	1	-	18	-
1 TO 19 EMPLOYEES	25	1	-	-	-	-	1	-	2	1	-	-	-	1	1	-	-	-	1	-	17	-
20 TO 99 EMPLOYEES	6	1	-	-	-	1	-	-	1	-	1	-	-	1	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORA COUNTY	2	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
OTERO COUNTY	34	6	-	-	1	5	-	-	5	-	1	-	-	5	-	1	5	1	-	1	3	-
1 TO 19 EMPLOYEES	28	6	-	-	-	3	-	-	4	-	1	-	-	5	-	1	4	-	-	1	3	-
20 TO 99 EMPLOYEES	4	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
QUAY COUNTY	10	4	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	3	-
1 TO 19 EMPLOYEES	8	3	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	3	-
20 TO 99 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RIO ARRIBA COUNTY	24	2	-	1	-	13	-	-	2	-	-	-	-	3	-	1	1	-	-	-	1	-
1 TO 19 EMPLOYEES	20	2	-	1	-	10	-	-	2	-	-	-	-	3	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
ROOSEVELT COUNTY	19	11	-	-	-	-	-	-	5	-	-	-	-	-	-	-	1	-	-	-	1	1
1 TO 19 EMPLOYEES	14	7	-	-	-	-	-	-	4	-	-	-	-	-	-	-	1	-	-	-	1	1
20 TO 99 EMPLOYEES	5	4	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
SANDOVAL COUNTY	29	1	-	-	-	9	1	-	1	-	-	1	-	2	1	2	4	1	1	-	5	-
1 TO 19 EMPLOYEES	23	-	-	-	-	6	-	-	1	-	-	1	-	2	1	2	3	1	1	-	5	-
20 TO 99 EMPLOYEES	6	1	-	-	-	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
SAN JUAN COUNTY	55	7	-	-	-	3	-	-	8	1	3	3	-	9	-	2	11	-	1	-	4	3
1 TO 19 EMPLOYEES	42	5	-	-	-	3	-	-	7	1	1	3	-	7	-	2	6	-	1	-	4	2
20 TO 99 EMPLOYEES	11	2	-	-	-	-	-	-	-	-	2	-	-	2	-	-	4	-	-	-	-	1
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
SAN MIGUEL COUNTY	11	2	-	-	2	3	-	-	2	-	-	-	-	1	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	9	2	-	-	1	2	-	-	2	-	-	-	-	1	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SANTA FE COUNTY	70	6	-	1	6	6	4	-	16	-	-	-	1	13	4	1	-	-	-	3	9	-
1 TO 19 EMPLOYEES	58	5	-	1	4	6	4	-	15	-	-	-	-	9	2	1	-	-	-	2	9	-
20 TO 99 EMPLOYEES	9	1	-	-	1	-	-	-	-	-	-	-	1	4	2	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
SIERRA COUNTY	4	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	4	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-
SOCORRO COUNTY	10	-	-	1	-	-	-	-	1	1	-	-	-	2	1	-	-	-	-	-	4	-
1 TO 19 EMPLOYEES	9	-	-	1	-	-	-	-	1	1	-	-	-	2	-	-	-	-	-	-	4	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
TAOS COUNTY	39	2	-	-	-	15	1	-	5	2	-	1	3	1	-	-	1	2	1	-	5	-
1 TO 19 EMPLOYEES	38	2	-	-	-	15	1	-	5	2	-	1	2	1	-	-	1	2	1	-	5	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
TORRANCE COUNTY	3	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--spparel snd other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, snd glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terma, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
UNION COUNTY	5	1	-	-	-	-	-	-	1	-	-	-	-	2	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	1	-	-	-	-	2	-	-	1	-	-	-	-	-
VALENCIA COUNTY	44	2	-	-	1	8	-	-	7	2	-	-	-	4	2	3	4	-	2	-	9	-
1 TO 19 EMPLOYEES	40	2	-	-	1	5	-	-	6	2	-	-	-	4	2	3	4	-	2	-	9	-
20 TO 99 EMPLOYEES	4	-	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

New York

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NEW YORK

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 1,509.9 thousand persons were employed in New York's manufacturing establishments. This figure represented a decrease of 10 percent from the 1972 figure of 1,679.3 thousand workers.

The total value added by manufacture for the State amounted to $44,290 million in 1977, an increase of approximately 46 percent from the 1972 figure of $30,404 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were apparel and other textile products; printing and publishing; electric and electronic equipment; and machinery, except electrical. They accounted for approximately 43 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 42 percent of the State's employment.

The most important counties in the State ranked by employment were New York, Monroe, Kings, and Erie. They accounted for approximately 47 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when New York, Kings, Monroe, and Erie accounted for approximately 50 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 1 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
New York:						
1977	1,509.9	20,876.1	1,383.8	18,088.8	126.1	2,787.3
1972	1,679.3	16,222.0	1,512.2	13,754.2	167.1	2,467.8
1967	1,929.2	13,851.5	1,771.2	12,055.6	158.0	1,795.9
1963	1,853.0	11,289.7	1,708.7	9,878.2	144.3	1,411.5
STANDARD CONSOLIDATED STATISTICAL AREA						
New York-Newark-Jersey City, N.Y.-N.J.-Conn.:						
1977	1,502.0	20,379.2	1,317.1	16,309.1	184.9	4,070.1
1972	1,694.5	13,654.6	1,487.6	10,602.3	206.9	3,052.3
1967	1,818.5	12,968.2	1,643.5	10,998.6	175.0	1,969.6
1963	1,779.0	10,767.1	1,625.5	9,279.1	153.5	1,488.0
STANDARD METROPOLITAN STATISTICAL AREAS						
Albany-Schenectady-Troy:						
1977	61.3	909.2	53.8	769.5	7.5	139.7
1972	66.9	676.1	60.0	577.2	6.9	98.9
Binghamton, N.Y.-Pa.:						
1977	39.6	578.1	38.9	569.2	.7	8.9
1972	36.4	377.4	35.6	371.0	.8	6.4
1967	46.1	347.5	45.1	340.8	1.0	6.7
1963	41.6	259.0	(D)	(D)	(D)	(D)
Buffalo:						
1977	140.3	2,296.1	136.9	2,222.7	3.4	73.4
1972	151.7	1,617.9	143.1	1,505.2	8.6	112.7
1967	176.2	1,354.8	173.1	1,326.1	3.1	28.7
1963	162.9	1,104.3	158.6	1,071.0	4.3	33.3
Elmira:						
1977	12.8	166.3	12.0	154.8	.8	11.5
1972	13.9	128.0	13.2	121.7	.7	6.3
Nassau-Suffolk:						
1977	155.9	2,099.0	151.7	2,013.0	4.2	86.0
1972	150.2	1,474.3	145.3	1,422.3	4.9	52.0
New York, N.Y.-N.J.:						
1977	796.6	10,313.0	692.9	7,981.5	103.7	2,331.5
1972	949.2	8,862.5	810.7	6,774.2	138.5	2,088.3
1967	1,147.4	8,112.7	1,023.5	6,654.7	123.9	1,458.0
1963	1,147.1	6,849.4	1,034.0	5,713.4	113.2	1,136.1
Poughkeepsie:						
1977	27.4	498.9	26.5	479.0	.9	19.9
1972	22.2	257.5	20.9	239.1	1.3	18.4
Rochester:						
1977	144.4	2,390.1	134.2	2,166.8	10.2	223.3
1972	142.2	1,625.8	130.3	1,447.4	11.9	178.4
Syracuse:						
1977	57.8	893.1	54.7	835.5	3.1	57.6
1972	60.5	592.5	57.7	557.3	2.8	35.2
1967	68.2	506.2	65.5	479.5	2.7	26.7
1963	67.1	423.5	63.7	396.0	3.4	27.5
Utica-Rome:						
1977	29.2	385.2	29.0	382.0	.2	3.2
1972	35.4	308.0	35.2	306.0	.2	2.0
1967	42.9	282.5	42.2	275.3	.7	7.2
1963	38.5	218.7	38.2	216.0	.3	2.7

(D) Withheld to avoid disclosing operations of individual companies.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
NEW YORK															
1977 CENSUS.	36 578	11 425	1 509.9	20 876.1	958.1	1 827.5	10 418.8	44 289.8	42 441.9	86 216.4	2 530.2	7.70	100	100	19 596.9
1976 ASM....	(NA)	(NA)	1 455.3	18 786.8	906.9	1 740.5	9 243.1	38 849.3	37 694.7	76 087.1	2 303.7	7.76	96	96	18 753.0
1975 ASM....	(NA)	(NA)	1 481.0	17 939.9	902.7	1 723.3	8 550.3	34 796.1	34 637.5	69 551.3	2 172.1	8.09	98	94	18 302.2
1974 ASM....	(NA)	(NA)	1 621.3	18 143.4	1 022.9	1 970.8	8 863.2	35 271.4	35 020.4	69 271.2	2 198.2	8.17	107	102	19 844.8
1973 ASM....	(NA)	(NA)	1 711.5	17 387.2	1 105.2	2 125.8	8 829.0	33 610.1	31 524.9	64 648.9	1 643.7	8.60	113	102	19 897.9
1972 CENSUS.	41 684	14 353	1 679.3	16 222.0	1 076.2	2 068.2	8 174.3	30 403.5	28 341.1	58 558.6	1 506.0	8.83	111	98	19 028.7
1971 ASM....	(NA)	(NA)	1 701.9	15 263.4	1 076.1	2 066.3	7 648.0	28 862.2	25 961.4	54 936.6	1 431.7	9.27	113	94	18 363.1
1970 ASM....	(NA)	(NA)	1 828.2	15 262.5	1 173.6	2 266.3	7 751.8	28 463.2	25 333.8	53 526.6	1 519.0	9.51	121	99	19 217.2
1969 ASM....	(NA)	(NA)	1 939.7	15 321.0	1 270.0	2 476.3	8 017.8	28 384.0	26 637.0	54 891.0	1 594.0	9.68	128	103	20 035.5
1968 ASM....	(NA)	(NA)	1 910.8	14 423.8	1 263.5	2 473.6	7 663.4	26 931.4	25 177.2	51 960.4	1 342.6	9.79	127	100	19 527.6
1967 CENSUS.	42 911	14 730	1 929.3	13 851.5	1 284.5	2 509.8	7 334.7	25 246.7	24 458.6	49 418.7	1 310.3	9.98	128	99	19 323.2
1966 ASM....	(NA)	(NA)	1 933.5	13 097.9	1 291.6	2 549.9	6 979.8	24 588.3	24 246.0	48 231.5	1 186.2	10.16	128	98	19 024.5
1965 ASM....	(NA)	(NA)	1 885.9	12 288.2	1 265.3	2 497.4	6 632.0	22 694.2	22 478.8	44 848.1	1 098.4	10.47	125	92	18 010.2
1964 ASM....	(NA)	(NA)	1 860.6	11 861.1	1 238.1	2 453.5	6 381.1	20 839.7	21 055.1	41 809.9	939.8	10.77	123	89	17 268.5
1963 CENSUS.	47 041	15 022	1 853.0	11 289.7	1 247.8	2 431.4	6 163.5	19 539.5	(NA)	(NA)	783.4	10.93	123	87	16 958.4
NEW YORK-NEWARK-JERSEY CITY, N.Y.-N.J.-CONN., SCSA															
1977 CENSUS.	41 325	13 366	1 502.0	20 379.2	919.2	1 747.6	9 319.5	40 638.1	44 236.4	84 486.0	1 949.6	7.66	100	100	19 596.9
1972 CENSUS.	36 320	12 614	1 694.5	16 210.9	1 063.6	2 031.1	7 759.4	29 668.0	29 037.2	58 236.3	1 292.4	8.90	113	98	19 028.7
ALBANY-SCHENECTADY-TROY SMSA															
1977 CENSUS.	766	274	61.3	909.2	37.0	74.0	454.3	1 859.7	1 806.0	3 612.7	151.2	.31	100	100	19 596.9
1976 ASM....	(NA)	(NA)	57.1	816.9	33.2	69.0	404.8	1 633.2	1 576.5	3 156.5	88.9	.30	93	96	18 753.0
1975 ASM....	(NA)	(NA)	58.6	728.4	33.8	67.9	365.2	1 359.8	1 419.8	2 772.7	94.1	.32	96	94	18 302.2
1974 ASM....	(NA)	(NA)	67.0	764.1	40.6	81.3	395.1	1 655.8	1 408.6	2 985.1	130.0	.34	109	102	19 844.8
1973 ASM....	(NA)	(NA)	68.0	713.6	42.1	85.1	368.1	1 459.0	1 233.0	2 690.7	73.7	.34	111	102	19 897.9
1972 CENSUS.	732	306	66.9	676.1	41.9	84.7	354.5	1 322.0	1 127.4	2 439.1	78.0	.35	109	98	19 028.7
BUFFALO SMSA															
1977 CENSUS.	1 711	628	140.3	2 296.1	102.1	203.4	1 555.5	4 735.5	5 629.7	10 345.8	451.7	.72	100	100	19 596.9
1976 ASM....	(NA)	(NA)	139.4	2 007.4	103.1	202.2	1 392.6	4 375.5	5 349.6	9 624.9	325.2	.74	99	96	18 753.0
1975 ASM....	(NA)	(NA)	135.3	1 776.2	97.9	186.7	1 175.3	3 607.6	4 725.1	8 334.0	348.0	.74	96	94	18 302.2
1974 ASM....	(NA)	(NA)	151.9	1 854.6	112.9	218.9	1 276.8	3 861.4	5 024.6	8 779.7	348.7	.77	108	102	19 844.8
1973 ASM....	(NA)	(NA)	160.3	1 838.6	117.0	233.2	1 238.4	3 720.4	4 024.6	7 681.4	242.9	.81	114	102	19 897.9
1972 CENSUS.	1 362	655	151.7	1 617.9	108.7	216.3	1 063.0	3 146.3	3 272.8	6 392.5	248.1	.80	108	98	19 028.7
1971 ASM....	(NA)	(NA)	155.7	1 510.2	113.2	225.2	1 016.7	3 065.9	3 127.8	6 204.2	192.8	.85	111	94	18 363.1
1970 ASM....	(NA)	(NA)	165.9	1 477.7	119.2	236.9	975.4	2 801.7	2 908.7	5 697.5	274.5	.86	118	99	19 217.2
1969 ASM....	(NA)	(NA)	177.3	1 504.2	129.7	258.9	1 013.5	2 983.5	3 093.7	6 041.3	261.6	.88	126	103	20 035.5
1968 ASM....	(NA)	(NA)	174.0	1 421.2	127.0	258.6	963.3	2 839.7	2 895.6	5 729.6	193.0	.89	124	100	19 527.6
1967 CENSUS.	171	717	176.2	1 354.8	129.0	260.4	904.7	2 653.5	2 795.1	5 409.3	223.6	.91	126	99	19 323.2
1966 ASM....	(NA)	(NA)	180.4	1 342.8	133.2	273.7	922.0	2 593.4	2 920.7	5 471.9	197.5	.95	129	98	19 024.5
1965 ASM....	(NA)	(NA)	175.1	1 269.2	127.1	266.5	867.2	2 432.5	2 793.7	5 210.9	209.1	.97	125	92	18 010.2
1964 ASM....	(NA)	(NA)	167.1	1 190.6	122.1	252.7	794.4	2 243.9	2 543.5	4 754.5	211.8	.97	119	89	17 268.5
1963 CENSUS.	1 808	679	162.9	1 104.3	117.9	239.5	731.8	2 068.8	(NA)	(NA)	116.3	.96	116	87	16 958.4
NASSAU-SUFFOLK SMSA															
1977 CENSUS.	4 827	1 268	155.9	2 099.0	101.6	196.8	1 099.6	4 370.3	3 380.6	7 729.7	196.7	.80	100	100	19 596.9
1976 ASM....	(NA)	(NA)	144.2	1 876.0	90.0	177.9	958.3	3 598.3	3 039.3	6 574.0	161.8	.77	92	96	18 753.0
1975 ASM....	(NA)	(NA)	142.8	1 731.8	88.1	175.0	889.5	3 246.8	2 813.2	5 924.8	133.7	.78	92	94	18 302.2
1974 ASM....	(NA)	(NA)	151.0	1 666.2	96.1	190.9	861.0	3 107.5	2 621.4	5 566.9	126.4	.76	97	102	19 844.8
1973 ASM....	(NA)	(NA)	157.0	1 590.9	102.2	200.6	840.2	2 936.2	2 409.8	5 308.3	102.7	.79	101	102	19 897.9
1972 CENSUS.	4 193	1 219	150.2	1 474.3	97.6	185.9	763.0	2 523.2	2 063.1	4 423.0	111.1	.79	96	98	19 028.7
NEW YORK, N.Y.-N.J., SMSA															
1977 CENSUS.	25 831	8 040	796.6	10 313.0	489.0	909.7	4 519.2	19 878.3	21 494.9	41 187.9	862.5	4.07	100	100	19 596.9
1976 ASM....	(NA)	(NA)	763.4	9 298.5	455.9	856.9	3 946.1	16 818.9	19 005.3	35 831.8	813.0	4.07	96	96	18 753.0
1975 ASM....	(NA)	(NA)	787.4	9 240.4	464.0	873.3	3 840.6	15 927.9	17 992.6	34 092.5	645.8	4.30	99	94	18 302.2
1974 ASM....	(NA)	(NA)	854.5	9 277.1	517.1	977.7	3 911.7	15 953.4	17 404.6	33 078.3	616.0	4.31	107	102	19 844.8
1973 ASM....	(NA)	(NA)	938.7	9 146.0	589.8	1 095.3	4 142.8	15 666.2	16 659.9	32 256.2	524.5	4.72	118	102	19 897.9
1972 CENSUS.	41 689	14 353	949.2	8 862.5	589.5	1 106.9	4 000.4	15 120.8	15 634.1	30 604.4	585.1	4.99	119	98	19 028.7
1971 ASM....	(NA)	(NA)	992.9	8 653.2	614.2	1 161.8	3 994.8	15 245.3	14 361.4	29 525.8	573.4	5.41	125	94	18 363.1
1970 ASM....	(NA)	(NA)	1 074.8	8 766.2	680.6	1 296.2	4 141.9	15 193.5	14 102.0	29 185.2	547.2	5.59	135	99	19 217.2
1969 ASM....	(NA)	(NA)	1 158.7	8 934.2	747.5	1 433.3	4 357.0	15 429.1	15 103.0	30 537.4	537.1	5.78	145	103	20 035.5
1968 ASM....	(NA)	(NA)	1 140.0	8 452.3	743.3	1 358.1	4 187.9	14 854.1	14 468.3	29 194.3	487.6	5.84	143	100	19 527.6
1967 CENSUS.	45 894	15 915	1 147.4	8 112.7	749.6	1 435.6	3 968.1	13 803.5	13 808.6	27 486.1	439.4	5.94	144	99	19 323.2
1966 ASM....	(NA)	(NA)	1 149.1	7 551.8	749.0	1 435.6	3 662.3	12 981.9	13 801.2	26 521.2	379.5	6.04	144	98	19 024.5
1965 ASM....	(NA)	(NA)	1 138.2	7 174.4	748.3	1 438.9	3 564.6	12 308.6	13 155.5	25 311.0	336.5	6.32	143	92	18 010.2
1964 ASM....	(NA)	(NA)	1 146.3	7 134.0	745.1	1 445.5	3 563.2	11 577.6	12 564.3	24 114.3	296.9	6.64	144	89	17 268.5
1963 CENSUS.	49 904	16 085	1 147.1	6 849.4	760.7	1 455.2	3 515.6	11 417.0	(NA)	(NA)	345.8	6.76	144	87	16 958.4
ROCHESTER SMSA															
1977 CENSUS.	1 316	467	144.4	2 390.1	81.7	158.3	1 129.4	6 732.4	3 083.9	9 735.1	335.0	.74	100	100	19 596.9
1976 ASM....	(NA)	(NA)	136.8	2 134.4	78.2	151.4	1 021.6	6 221.1	2 859.5	8 984.8	320.2	.73	95	96	18 753.0
1975 ASM....	(NA)	(NA)	139.1	2 029.0	74.5	143.3	906.9	5 666.3	2 669.7	8 367.5	314.0	.76	96	94	18 302.2
1974 ASM....	(NA)	(NA)	151.0	1 981.6	85.6	165.9	925.9	5 408.4	2 707.8	7 998.1	347.6	.76	105	102	19 844.8
1973 ASM....	(NA)	(NA)	151.3	1 836.4	88.2	177.1	878.8	5 196.9	2 086.9	7 188.3	282.8	.76	105	102	19 897.9
1972 CENSUS.	1 291	457	142.2	1 625.8	84.4	168.0	810.5	4 390.5	1 781.3	6 165.5	192.1	.75	98	98	19 028.7

See footnotes at end of table.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years—Con.

(Includes SCSA's and SMSA's with 40,000 manufacturing employeea or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
	SYRACUSE SMSA														
1977 CENSUS.	767	281	57.8	893.1	37.3	74.5	513.1	2 017.7	2 312.6	4 300.1	152.2	.30	100	100	19 596.9
1976 ASM....	(NA)	(NA)	54.6	772.6	35.9	70.4	428.9	1 685.2	2 018.6	3 675.8	248.6	.29	94	96	18 753.0
1975 ASM....	(NA)	(NA)	53.6	697.3	34.7	66.6	374.6	1 391.0	1 554.4	2 993.4	207.3	.29	93	94	18 302.2
1974 ASM....	(NA)	(NA)	60.0	724.1	41.1	81.3	414.2	1 512.4	1 691.4	3 140.7	147.4	.30	104	102	19 844.8
1973 ASM....	(NA)	(NA)	63.3	666.2	41.5	84.3	392.5	1 361.3	1 416.7	2 741.6	98.7	.32	109	102	19 897.9
1972 CENSUS.	732	298	60.5	592.5	39.2	78.3	337.5	1 205.3	1 203.3	2 380.3	84.3	.32	105	98	19 028.7
1971 ASM....	(NA)	(NA)	58.8	546.6	37.3	74.0	291.4	1 024.8	970.5	2 029.9	68.1	.32	102	94	18 363.1
1970 ASM....	(NA)	(NA)	63.4	551.4	39.7	79.2	292.1	1 031.1	919.2	1 945.4	86.8	.33	110	99	19 217.2
1969 ASM....	(NA)	(NA)	65.0	541.0	41.3	82.8	294.0	1 058.1	979.0	2 014.5	114.4	.32	112	103	20 035.5
1968 ASM....	(NA)	(NA)	65.7	516.2	42.7	85.2	281.2	984.1	934.9	1 922.8	90.8	.34	114	100	19 527.6
1967 CENSUS.	755	291	68.2	506.2	44.7	89.8	280.9	941.1	885.6	1 830.6	70.7	.35	118	99	19 323.2
1966 ASM....	(NA)	(NA)	74.4	534.6	49.2	103.9	297.2	1 010.3	906.5	1 896.3	78.6	.39	129	98	19 024.5
1965 ASM....	(NA)	(NA)	68.2	470.6	44.5	92.1	261.6	925.4	828.0	1 750.1	64.1	.38	118	92	18 010.2
1964 ASM....	(NA)	(NA)	63.2	429.9	40.7	84.2	237.2	837.0	738.9	1 567.0	36.0	.37	109	89	17 268.5
1964 ASM....	773	280	67.1	423.5	41.0	81.6	225.1	779.7	(NA)	(NA)	42.8	.39	116	89	17 268.5

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establiahments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Cenaus of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industriea includes extensive duplication, since products of some industries are used as materials by others (aee appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	NEW YORK								
1977 CENSUS.....	13 826	63	1 908	5.70	49	73	29 334	47	24.24
1976 ASM.....	12 909	62	1 919	5.31	50	74	26 695	48	22.32
1975 ASM.....	12 113	61	1 909	4.96	50	76	23 495	52	20.19
1974 ASM.....	11 191	63	1 927	4.50	51	77	21 755	51	17.90
1973 ASM.....	10 159	65	1 923	4.15	49	76	19 638	52	15.81
1972 CENSUS.....	9 660	64	1 922	3.95	48	75	18 105	53	14.70
1971 ASM.....	8 968	63	1 920	3.70	47	75	16 959	53	13.97
1970 ASM.....	8 348	64	1 931	3.42	47	76	15 569	54	12.56
1969 ASM.....	7 899	65	1 950	3.24	49	76	14 633	54	11.46
1968 ASM.....	7 549	66	1 958	3.10	48	76	14 094	54	10.89
1967 CENSUS.....	7 180	67	1 954	2.92	49	78	13 086	55	10.06
1966 ASM.....	6 774	67	1 974	2.74	50	77	12 717	53	9.64
1965 ASM.....	6 516	67	1 974	2.66	50	78	12 034	54	9.09
1964 ASM.....	6 375	67	1 982	2.60	50	79	11 201	57	8.49
1963 CENSUS.....	6 093	67	1 949	2.53	(NA)	(NA)	10 545	58	8.04
	NEW YORK-NEWARK-JERSEY CITY, N.Y.-N.J.-CONN., SCSA								
1977 CENSUS.....	13 568	61	1 901	5.33	52	76	27 056	50	23.25
1972 CENSUS.....	9 567	63	1 910	3.82	50	78	17 508	55	14.61
	ALBANY-SCHENECTADY-TROY SMSA								
1977 CENSUS.....	14 833	60	2 002	6.14	50	75	30 338	49	25.12
1976 ASM.....	14 306	58	2 078	5.87	50	76	28 602	50	23.67
1975 ASM.....	12 430	58	2 009	5.38	51	77	23 205	54	20.03
1974 ASM.....	11 404	61	2 002	4.86	47	73	24 713	46	20.37
1973 ASM.....	10 494	.62	2 021	4.33	46	72	21 456	49	17.14
1972 CENSUS.....	10 106	63	2 021	4.19	46	74	19 761	51	15.61

See footnotes at end of table.

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years – Con.

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
BUFFALO SMSA									
1977 CENSUS	16 369	73	1 993	7.65	54	77	33 760	48	23.28
1976 ASM	14 400	74	1 961	6.89	56	76	31 388	46	21.64
1975 ASM	13 128	72	1 907	6.30	57	78	26 664	49	19.32
1974 ASM	12 209	74	1 939	5.83	57	78	25 421	48	17.64
1973 ASM	11 470	73	1 993	5.31	52	76	23 209	49	15.95
1972 CENSUS	10 665	72	1 990	4.91	51	77	20 740	51	14.55
1971 ASM	9 699	73	1 989	4.51	50	75	19 691	49	13.61
1970 ASM	8 907	72	1 987	4.12	51	77	16 888	53	11.83
1969 ASM	8 484	73	1 996	3.91	51	76	16 827	50	11.52
1968 ASM	8 168	73	2 036	3.73	51	75	16 320	50	10.98
1967 CENSUS	7 689	73	2 019	3.47	52	77	15 060	51	10.19
1966 ASM	7 443	74	2 055	3.37	53	78	14 376	52	9.48
1965 ASM	7 248	73	2 097	3.25	54	78	13 892	52	9.13
1964 ASM	7 125	73	2 070	3.14	53	79	13 428	53	8.88
1963 CENSUS	6 779	72	2 031	3.06	(NA)	(NA)	12 700	53	8.64
NASSAU-SUFFOLK SMSA									
1977 CENSUS	13 462	65	1 937	5.59	44	71	28 029	48	22.21
1976 ASM	13 010	62	1 977	5.39	46	75	24 954	52	20.23
1975 ASM	12 127	62	1 986	5.08	47	77	22 737	53	18.55
1974 ASM	11 034	64	1 986	4.51	47	77	20 579	54	16.28
1973 ASM	10 133	65	1 963	4.19	45	75	18 702	54	14.64
1972 CENSUS	9 816	65	1 905	4.10	47	80	16 799	58	13.57
NEW YORK, N.Y.-N.J., SMSA									
1977 CENSUS	12 946	61	1 860	4.97	52	77	24 954	52	21.85
1976 ASM	12 180	60	1 880	4.61	53	79	22 032	55	19.63
1975 ASM	11 735	59	1 882	4.40	53	80	20 228	58	18.24
1974 ASM	10 857	61	1 891	4.00	53	81	18 670	58	16.32
1973 ASM	9 743	63	1 857	3.78	52	80	16 689	58	14.30
1972 CENSUS	9 337	62	1 878	3.61	51	80	15 930	59	13.66
1971 ASM	8 715	62	1 892	3.44	49	78	15 354	57	13.12
1970 ASM	8 156	63	1 904	3.20	48	78	14 136	58	11.72
1969 ASM	7 711	65	1 917	3.04	49	79	13 316	58	10.76
1968 ASM	7 414	65	1 827	3.08	50	79	13 030	57	10.94
1967 CENSUS	7 071	65	1 915	2.76	50	80	12 030	59	9.62
1966 ASM	6 572	65	1 917	2.55	52	81	11 297	58	9.04
1965 ASM	6 303	66	1 923	2.48	52	80	10 814	58	8.55
1964 ASM	6 224	65	1 940	2.47	52	82	10 100	62	8.01
1963 CENSUS	5 971	66	1 913	2.42	(NA)	(NA)	9 953	60	7.85
ROCHESTER SMSA									
1977 CENSUS	16 554	57	1 938	7.14	32	56	46 630	36	42.54
1976 ASM	15 602	57	1 936	6.75	32	56	45 476	34	41.09
1975 ASM	14 587	54	1 923	6.33	32	56	40 735	36	39.54
1974 ASM	13 123	57	1 938	5.58	34	59	35 817	37	32.60
1973 ASM	12 137	58	2 008	4.96	29	55	34 348	35	29.34
1972 CENSUS	11 433	59	1 991	4.82	29	55	30 876	37	26.13
SYRACUSE SMSA									
1977 CENSUS	15 439	65	1 997	6.88	54	75	34 882	44	27.07
1976 ASM	14 150	66	1 961	6.09	55	76	30 864	46	23.94
1975 ASM	13 009	65	1 919	5.62	52	75	25 951	50	20.89
1974 ASM	12 068	68	1 978	5.09	54	77	25 207	48	18.60
1973 ASM	10 524	66	2 031	4.66	52	76	21 506	49	16.15
1972 CENSUS	9 793	65	1 997	4.31	51	75	19 922	49	15.39
1971 ASM	9 296	63	1 984	3.94	48	75	17 429	53	13.85
1970 ASM	8 697	63	1 995	3.69	47	76	16 263	53	13.01
1969 ASM	8 323	64	2 005	3.55	49	75	16 278	51	12.78
1968 ASM	7 857	65	1 995	3.30	49	75	14 979	52	11.55
1967 CENSUS	7 422	66	2 009	3.13	48	76	13 799	54	10.48
1966 ASM	7 185	66	2 112	2.86	48	76	13 579	53	9.72
1965 ASM	6 900	65	2 070	2.84	47	74	13 569	51	10.05
1964 ASM	6 802	64	2 069	2.82	47	75	13 244	51	9.94
1964 ASM	6 311	61	1 990	2.76	(NA)	(NA)	11 620	54	9.56

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	36 578	38 342
With 1 to 19 employees	do	25 153	25 346
With 20 to 99 employees	do	8 864	10 135
With 100 employees or more	do	2 561	2 861
All employees, average for year[1]	1,000	1 509.9	1 679.3
Payroll for year, all employees[1]	mil. dollars	20 876.1	16 222.0
Production workers:			
Average for year	1,000	958.1	1 076.2
March	do	938.9	1 059.0
May	do	956.0	1 063.4
August	do	962.9	1 081.0
November	do	970.5	1 101.3
Hours	millions	1 827.5	2 068.2
January to March	do	444.4	507.8
April to June	do	465.1	520.7
July to September	do	451.4	505.1
October to December	do	466.6	534.6
Wages	mil. dollars	10 418.8	8 174.3
Cost of materials, etc.[2]	do	42 441.9	28 341.1
Materials, parts, containers, etc., consumed	do	35 326.9	23 151.2
Resales	do	2 000.0	1 592.4
Fuels consumed	do	746.5	310.5
Purchased electric energy	do	732.8	353.7
Contract work	do	3 635.9	2 933.3
Value of shipments, including resales[2]	do	86 216.4	58 558.6
Value of resales	do	2 738.3	2 045.8
Value added by manufacture	do	44 289.8	30 403.5
Manufacturers' inventories:			
Beginning of year	do	12 365.5	8 392.1
Finished products	do	3 759.4	2 937.7
Work in process	do	4 537.4	2 923.6
Materials, supplies, fuel, etc.	do	4 068.8	2 530.9
End of year	do	13 113.4	8 682.5
Finished products	do	3 977.6	2 925.3
Work in process	do	4 822.4	3 096.7
Materials, supplies, fuel, etc.	do	4 313.4	2 660.6
Capital expenditures for plant and equipment	do	2 694.4	1 567.2
New capital expenditures	do	2 530.2	1 506.0
New buildings and other structures	do	451.9	320.2
New machinery and equipment	do	2 078.3	1 185.8
Used capital expenditures	do	164.2	61.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	22,526.4	1
New capital expenditures	2,640.9	1
Used capital expenditures	179.1	6
Retirements	1,189.2	2
End of year	24,157.2	1
Buildings and other structures:		
Beginning of year	6,351.1	1
New capital expenditures	473.3	3
Used capital expenditures	41.3	7
Retirements	215.2	3
End of year	6,650.4	1
Machinery and equipment:		
Beginning of year	16,175.2	1
New capital expenditures	2,167.6	1
Automobiles, trucks, etc., for highway use	48.8	(NA)
Computers and peripheral data processing equip.	82.5	(NA)
All other	1,608.2	(NA)
New machinery and equipment, n.s.k.	428.0	(NA)
Used capital expenditures	137.8	7
Retirements	974.3	2
End of year	17,506.3	1
Rental payments:		
Total	681.8	2
Buildings and other structures	413.2	2
Machinery and equipment	268.1	3
Depreciation charges during 1977:		
Total	1,490.0	1
Buildings and other structures	277.8	2
Machinery and equipment	1,212.2	1
Supplemental labor costs:		
Total	3,458.0	1
Legal costs	1,384.1	1
Voluntary costs	2,074.0	1
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	115.0	7
Response coverage ratio (percent)	64	(X)
Machinery	(335.6)	77
Response coverage ratio (percent)	64	(X)
Cost of purchased communication services	(310.7)	67
Response coverage ratio (percent)	65	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
New York	-	36 578	11 425	1 509.9	20 876.1	958.1	1 827.5	10 418.8	44 289.8	42 441.9	86 216.4	2 530.2	1 679.3	30 403.5
STANDARD CONSOLIDATED STATISTICAL AREAS														
New York-Newark-Jersey City, N.Y.-N.J.-Conn.	-	41 325	13 366	1 502.0	20 379.2	919.2	1 747.6	9 319.5	40 638.1	44 236.4	84 486.0	1 949.6	1 694.5	29 668.0
Portion in New York	-	28 079	8 404	843.4	10 892.4	526.8	980.4	4 906.3	21 404.8	21 192.0	42 411.4	856.6	991.4	15 715.6
Portion in New Jersey	-	12 395	4 649	609.2	8 626.2	372.8	729.4	4 206.0	18 046.3	22 244.9	40 093.0	1 036.2	658.0	13 133.8
STANDARD METROPOLITAN STATISTICAL AREAS														
Albany-Schenectady-Troy	-	766	274	61.3	909.2	37.0	74.0	454.3	1 859.7	1 806.0	3 612.7	151.2	66.9	1 322.0
Binghamton, N.Y.-Pa.	-	389	146	39.6	578.1	22.3	42.9	236.3	1 081.2	1 244.8	2 273.4	(D)	36.4	673.5
Portion in New York	-	326	125	37.3	558.7	20.4	39.3	221.8	1 046.7	1 216.5	2 211.3	71.9	34.3	651.9
Portion in Pennsylvania	E1	63	21	2.2	19.3	1.9	3.6	14.4	34.6	28.2	62.1	(D)	2.1	21.6
Buffalo	-	1 711	628	140.3	2 296.1	102.1	203.4	1 555.5	4 735.5	5 629.7	10 345.8	451.7	151.7	3 146.3
Elmira	-	119	55	12.8	166.3	9.0	17.8	105.9	331.5	313.3	636.1	(D)	13.9	216.7
Nassau-Suffolk	E1	4 827	1 268	155.9	2 099.0	101.6	196.8	1 099.6	4 370.3	3 380.6	7 729.7	196.7	150.2	2 523.2
New York, N.Y.-N.J.	E1	25 831	8 040	796.6	10 313.0	489.0	909.7	4 519.2	19 878.3	21 494.9	41 187.9	862.5	949.2	15 120.8
Portion in New York	E1	23 252	7 136	687.5	8 793.4	425.2	783.6	3 806.7	17 034.5	17 811.4	34 681.7	660.0	839.0	13 162.4
Portion in New Jersey	-	2 579	904	109.1	1 519.7	63.8	126.1	712.5	2 843.8	3 683.6	6 506.1	202.6	110.2	1 958.4
Poughkeepsie	-	229	85	27.4	498.9	10.9	21.3	124.8	896.0	1 149.2	1 970.3	(D)	22.2	448.5
Rochester	-	1 316	467	144.4	2 390.1	81.7	158.3	1 129.4	6 732.4	3 083.9	9 735.1	335.0	142.2	4 390.6
Syracuse	-	767	281	57.8	893.1	37.3	74.5	513.1	2 017.7	2 312.6	4 300.1	152.2	60.5	1 205.3
Utica-Rome	-	411	141	29.2	385.2	20.5	39.3	223.9	791.7	827.2	1 607.4	41.5	35.4	631.0
COUNTIES														
Albany	-	286	101	16.8	246.9	11.1	22.3	148.0	543.7	606.8	1 153.2	74.6	20.7	377.6
Allegany	-	47	12	3.4	46.2	2.2	4.5	27.9	109.4	114.7	230.5	4.2	3.7	63.4
Bronx	E1	1 136	395	33.1	352.3	25.6	47.6	222.4	712.7	639.2	1 351.1	33.8	41.2	573.0
Broome	-	276	108	30.7	433.7	18.0	34.8	194.9	811.1	1 117.9	1 880.3	(D)	29.6	570.7
Cattaraugus	-	132	55	9.1	108.8	6.5	12.5	70.9	280.0	236.9	514.7	10.2	8.6	137.8
Cayuga	-	104	33	5.8	68.3	3.8	7.1	36.5	126.1	157.4	287.2	9.0	6.4	119.3
Chautauqua	-	299	106	16.6	215.6	12.0	24.0	145.8	493.8	471.3	960.7	51.8	17.4	267.9
Chemung	-	119	55	12.8	166.3	9.0	17.8	105.9	331.5	313.3	636.1	(D)	(D)	(D)
Chenango	-	84	27	5.6	66.0	3.9	7.2	37.4	117.2	114.2	231.8	13.6	5.5	115.5
Clinton	-	79	25	3.7	45.4	2.7	5.3	29.5	239.0	160.9	390.7	9.4	3.0	136.8
Columbia	E1	86	31	2.7	27.6	2.1	4.0	17.6	67.1	64.3	130.0	3.5	2.9	50.2
Cortland	-	64	24	5.5	58.7	4.0	7.5	37.4	117.7	126.6	251.0	7.3	6.2	89.9
Delaware	-	74	22	5.8	64.4	4.0	7.9	39.8	140.5	144.6	280.1	6.5	5.6	85.4
Dutchess	-	229	85	27.4	498.9	10.9	21.3	124.8	896.0	1 149.2	1 970.3	(D)	22.2	448.5
Erie	-	1 405	500	108.8	1 775.3	79.4	157.6	1 212.1	3 209.1	4 425.3	7 644.2	326.1	119.9	2 251.0
Essex	-	61	9	1.6	23.2	1.3	2.5	17.3	63.6	62.7	124.0	5.7	1.6	31.3
Franklin	-	58	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	13.2
Fulton	-	164	68	7.1	64.5	5.8	11.5	44.8	148.4	176.1	317.3	(D)	6.7	89.5
Genesee	-	87	39	5.3	67.5	3.8	7.5	40.9	122.0	185.3	308.3	10.6	6.8	90.6
Greene	E1	46	19	2.0	21.0	1.6	3.2	14.6	42.9	45.6	86.9	1.8	1.6	28.1
Hamilton	E5	14	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.6
Herkimer	-	97	33	7.4	99.0	5.6	11.1	57.5	229.2	127.2	361.1	11.7	12.0	189.2
Jefferson	-	87	32	5.6	69.7	4.5	8.8	51.6	154.5	274.6	432.5	7.6	6.3	100.4
Kings	E1	4 201	1 466	118.4	1 192.0	96.3	176.7	825.0	2 621.3	2 793.9	5 358.7	116.7	165.6	2 536.3
Lewis	-	34	12	1.7	20.7	1.3	2.7	14.8	51.8	104.8	156.8	4.7	2.0	30.7
Livingston	-	56	25	3.9	46.1	3.1	6.0	32.1	158.3	106.2	227.0	4.9	4.3	107.0
Madison	E1	64	20	1.7	20.1	1.1	2.1	10.4	34.0	88.3	121.5	3.2	2.0	28.4
Monroe	-	968	342	126.2	2 182.5	68.1	131.6	994.0	6 171.1	2 555.8	8 689.8	309.2	124.5	4 016.1
Montgomery	E1	89	47	7.7	74.7	5.5	10.3	45.0	144.4	189.1	331.5	16.8	7.8	115.2
Nassau	-	2 448	636	92.1	1 338.9	56.3	111.6	661.4	2 702.6	2 084.1	4 773.4	117.0	93.4	1 618.5
New York	E1	13 289	3 800	359.4	4 970.4	191.3	344.8	1 637.0	8 834.8	9 034.3	17 775.6	303.7	431.2	6 393.3
Niagara	-	306	128	31.5	520.7	22.7	45.8	343.4	1 526.4	1 204.4	2 701.6	125.5	31.8	895.3
Oneida	-	314	108	21.8	286.2	14.9	28.3	166.4	562.5	700.0	1 246.3	29.8	23.4	441.8
Onondaga	-	594	221	47.8	744.0	29.9	59.6	410.5	1 534.9	1 364.3	2 870.8	100.5	51.6	1 040.5
Ontario	-	125	43	4.6	53.9	3.4	6.6	34.6	139.3	146.5	281.9	8.3	4.4	76.4
Orange	-	358	146	15.2	156.2	11.6	22.1	104.0	406.3	401.6	797.6	21.7	16.5	237.2
Orleans	-	48	16	2.8	29.6	2.3	4.5	23.0	105.7	86.2	190.6	2.7	2.6	76.8
Oswego	-	109	40	8.4	128.9	6.4	12.9	92.2	448.8	860.0	1 307.7	48.4	6.9	136.3
Otsego	E1	60	18	1.6	15.3	1.2	2.3	9.4	32.9	42.6	74.9	1.8	1.3	18.5
Putnam	E2	64	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	12.4
Queens	E1	2 710	907	94.1	1 060.1	70.1	134.1	656.0	2 256.4	2 208.7	4 461.7	92.6	113.6	1 908.2
Rensselaer	-	127	39	7.1	87.9	4.4	8.5	47.1	210.4	139.2	350.4	8.7	8.9	171.1
Richmond	-	125	40	4.7	66.2	3.6	7.0	46.7	183.1	441.7	616.4	13.6	6.0	166.4
Rockland	-	278	87	14.8	202.4	9.0	17.3	105.3	809.9	433.2	1 240.1	31.9	14.0	516.5
St. Lawrence	-	87	34	7.2	120.1	5.5	11.2	88.7	396.5	785.1	1 210.4	43.8	7.7	131.9
Saratoga	-	120	35	5.3	77.9	3.6	7.7	46.1	210.3	228.1	433.2	31.6	(D)	(D)
Schenectady	-	144	52	24.4	421.8	12.4	25.2	168.1	750.8	642.7	1 344.5	19.6	(D)	(D)
Schoharie	E3	39	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	9.6
Schuyler	-	19	6	1.2	14.9	0.9	1.7	9.5	30.9	22.1	52.7	2.6	1.2	21.9
Seneca	-	35	12	3.3	43.5	2.1	4.3	25.4	102.2	92.6	198.3	8.1	3.5	76.2
Steuben	-	91	41	14.2	211.1	7.2	14.6	83.2	393.9	271.7	664.4	19.5	11.4	200.2
Suffolk	E2	2 379	632	63.8	760.1	45.3	85.2	438.2	1 667.7	1 296.5	2 956.3	79.7	56.8	904.7
Sullivan	E3	81	9	0.8	8.2	0.6	1.2	5.2	19.9	29.0	49.2	1.5	0.9	13.6
Tioga	-	50	17	6.7	125.1	2.5	4.5	26.9	235.5	98.7	331.0	(D)	4.7	81.3
Tompkins	-	84	17	5.3	65.3	3.8	7.0	38.9	153.5	94.6	243.6	9.2	5.4	87.4
Ulster	E1	237	59	7.9	79.3	6.0	11.2	50.5	186.0	151.7	336.5	7.4	12.6	183.8
Warren	-	95	27	5.1	65.2	3.9	7.8	45.4	147.8	211.3	357.3	35.1	4.8	79.9
Washington	-	77	29	5.9	76.1	4.7	9.2	50.9	183.9	185.7	369.4	13.5	5.8	116.5
Wayne	-	119	41	6.9	77.9	4.7	9.5	45.7	158.0	189.2	345.8	9.9	6.8	106.5
Westchester	-	1 450	433	62.2	942.0	28.9	55.2	309.7	1 600.9	2 250.4	3 853.4	66.4	67.0	1 080.2
Wyoming	-	48	22	3.6	37.2	3.0	5.8	27.9	90.2	108.4	200.1	5.2	3.9	50.0
Yates	-	21	8	0.8	8.7	0.6	1.2	5.2	19.8	28.7	47.6	0.9	1.0	12.1

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
CITIES													
Akron	–	10	7	0.9	12.7	0.6	1.2	7.4	29.4	17.7	46.6	1.1	1.3	21.3
Albany	–	105	35	5.1	73.4	2.9	5.8	34.4	152.6	169.0	320.2	4.4	6.7	146.7
Albion	–	9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Amityville	E3	49	12	0.8	7.9	0.6	1.1	4.8	12.7	11.7	24.3	0.4	1.4	16.3
Amsterdam	E2	59	30	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4	48.1
Ardsley	E2	6	3	1.2	24.2	0.1	0.1	0.7	2.0	1.0	3.1	0.1	(NA)	(NA)
Auburn	–	64	25	4.6	56.1	3.0	5.7	31.1	103.5	133.0	240.3	8.5	5.2	104.1
Avon	–	5	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Baldwinsville	–	11	8	1.6	23.4	1.1	2.0	13.3	54.1	78.0	131.3	(D)	1.0	19.5
Batavia	–	46	23	2.8	35.0	2.0	3.7	21.0	58.3	94.6	157.6	3.5	4.0	38.7
Beacon	–	24	15	2.1	23.6	1.7	3.6	17.0	49.3	62.7	111.5	1.8	(D)	(D)
Binghamton	–	116	42	8.4	92.4	6.0	11.1	57.9	165.6	193.8	367.8	11.8	12.1	195.0
Brentwood (U)	E2	17	8	0.5	4.4	0.4	0.7	2.9	7.8	9.0	16.8	0.3	0.5	5.2
Brockport	–	11	3	1.5	18.9	1.2	2.4	15.0	58.0	36.4	94.6	2.1	1.4	34.3
Buffalo	–	725	271	46.4	692.5	33.4	66.4	458.8	1 445.1	1 864.8	3 282.1	79.7	53.2	1 052.1
Camden	–	11	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Canajoharie	–	7	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Canandaigua	–	16	7	1.2	12.9	0.9	1.7	7.8	39.5	50.1	88.3	4.0	0.7	13.3
Canastota	–	16	5	0.5	6.4	0.4	0.8	4.5	15.8	37.5	54.3	0.9	0.7	11.8
Carthage	–	8	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	12.5
Central Islip (U)	E2	53	15	1.0	11.1	0.7	1.2	6.5	26.2	35.9	60.2	0.9	(NA)	(NA)
Cobleskill	E2	16	5	0.6	4.6	0.4	0.8	2.9	9.6	9.0	17.6	0.7	(NA)	(NA)
Cohoes	–	30	13	1.7	16.5	1.4	2.8	12.5	31.7	66.2	96.0	1.7	2.3	27.6
Corinth	–	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Corning	–	16	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cortland	–	35	11	2.4	23.7	1.7	3.4	15.3	31.9	63.5	101.8	1.5	3.8	57.8
Dansville	–	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Deer Park (U)	E1	226	47	7.4	97.0	5.9	11.2	71.5	214.5	109.4	321.6	10.9	6.2	117.7
Depew	–	30	9	1.9	26.9	1.6	2.9	21.7	43.5	29.3	71.8	2.0	3.2	50.3
Dobbs Ferry	E4	21	6	0.8	14.6	0.1	0.3	1.1	5.9	4.6	10.3	0.2	(NA)	(NA)
Dolgeville	–	9	4	0.9	6.3	0.8	1.5	4.4	12.6	9.8	22.1	0.3	1.1	12.1
Dunkirk	–	38	21	4.2	65.6	3.4	6.6	51.9	150.0	189.3	337.3	22.0	3.6	52.7
East Aurora	–	24	5	2.2	26.2	1.5	2.7	13.5	37.4	34.0	71.6	(D)	(D)	(D)
East Rochester	–	14	6	0.7	5.9	0.5	1.1	3.8	16.4	11.2	27.1	0.5	0.9	14.3
Ellenville	–	15	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	25.5
Elmira	–	49	22	4.8	59.3	3.2	6.4	36.1	131.3	82.7	211.4	6.2	5.9	85.5
Elmira Heights	–	11	7	1.2	16.4	0.8	1.5	9.9	32.3	30.0	61.6	1.2	(D)	(D)
Endicott	–	33	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fairport	–	16	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	32.6
Falconer	–	21	9	1.4	15.4	1.1	2.0	10.5	33.9	23.4	55.6	(D)	1.8	28.7
Farmingdale	–	88	25	7.5	129.0	4.8	9.0	72.5	246.9	158.7	377.6	12.0	3.9	63.3
Fayetteville	E1	13	6	0.6	6.8	0.5	0.9	5.3	11.7	8.5	20.0	0.8	0.6	8.7
Fort Edward	–	7	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Freeport	E1	161	43	2.9	32.9	2.2	4.3	20.5	73.7	120.0	191.8	3.7	3.0	43.9
Fulton	–	25	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	73.5
Garden City	–	36	12	3.0	49.2	1.2	2.3	16.6	105.0	53.4	157.4	(D)	6.2	93.2
Geneva	–	20	8	1.0	13.9	0.8	1.5	10.1	30.7	25.8	58.1	0.8	1.5	23.1
Glen Cove	–	60	24	4.7	53.8	3.1	6.1	28.2	122.7	110.6	229.8	7.6	4.3	90.2
Glens Falls	–	44	18	3.1	38.0	2.4	4.6	27.2	88.2	105.9	193.0	(D)	4.4	73.5
Gloversville	–	91	34	4.1	36.2	3.4	6.7	26.2	78.0	105.3	183.7	3.4	4.0	51.2
Gowanda	–	14	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	13.7
Granville	–	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Great Neck Plaza	E2	33	8	0.6	8.1	0.3	0.6	2.4	5.0	3.9	8.9	0.1	(NA)	(NA)
Green Island	–	8	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Harrison	E1	13	4	0.7	8.9	(Z)	0.1	0.5	2.2	1.5	3.8	0.1	(NA)	(NA)
Haverstraw	–	17	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hempstead	E1	63	17	1.1	11.3	0.7	1.7	6.3	25.7	27.5	52.8	0.6	1.3	23.3
Herkimer	–	11	7	0.5	5.9	0.3	0.6	2.8	9.9	10.8	20.5	(D)	(D)	(D)
Hicksville (U)	E1	137	45	5.1	59.5	3.3	6.4	31.6	122.2	116.6	243.9	8.3	4.3	87.7
Hoosick Falls	–	13	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	10.5
Hornell	–	13	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	11.7
Horseheads	–	19	11	3.6	44.9	2.4	4.8	27.0	71.9	101.6	173.6	2.5	4.3	73.6
Hudson	E1	35	12	1.1	11.1	0.8	1.6	6.8	36.3	24.8	60.6	0.8	1.3	21.3
Hudson Falls	–	15	6	2.2	30.5	1.7	3.3	18.7	64.1	50.7	115.4	(D)	2.4	43.4
Huntington Station (U)	E1	67	12	1.1	12.3	0.8	1.6	7.0	21.7	17.2	39.7	1.2	0.8	10.1
Ilion	–	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ithaca	–	50	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jamestown	–	106	39	6.1	74.7	4.1	8.5	47.1	132.9	90.4	223.1	6.5	9.1	145.0
Johnson City	–	33	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Johnstown	E1	53	25	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	29.5
Kingston	E2	72	27	1.9	17.5	1.5	2.9	12.3	36.4	21.6	57.4	0.8	(D)	(D)
Lake Success	–	11	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	99.7
Lakewood	–	10	4	0.5	7.8	0.3	0.6	3.7	12.5	15.3	26.3	(D)	(NA)	(NA)
Lancaster	–	20	7	1.0	12.6	0.7	1.3	7.0	25.8	17.4	42.8	1.2	1.0	17.0
Le Roy	–	13	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	37.6
Lindenhurst	E2	103	27	2.1	21.0	1.6	2.9	13.7	32.7	37.2	71.3	3.4	1.9	23.3
Little Falls	–	23	10	1.3	12.1	1.0	2.1	9.3	29.0	30.0	64.2	2.4	2.1	30.4
Lockport	–	51	23	11.4	205.0	9.3	19.0	161.9	757.3	495.2	1 245.6	31.3	11.0	458.3
Lynbrook	E3	80	26	1.5	15.1	1.2	2.3	9.3	28.6	34.2	62.6	0.8	1.7	23.6
Malone	–	17	5	0.6	3.7	0.5	0.8	2.9	9.7	9.5	19.1	0.2	0.6	6.5
Mamaroneck	–	55	16	1.7	19.8	1.4	2.6	13.1	34.9	77.8	112.5	1.6	1.8	23.6
Manlius	–	14	6	0.7	8.0	0.6	1.1	4.9	13.8	13.4	27.6	0.6	0.7	9.3
Medina	–	21	9	1.9	18.9	1.6	3.2	15.4	58.4	42.0	99.6	1.1	1.6	31.8

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
CITIES—Con.														
Middletown	E1	55	19	2.7	26.9	1.8	3.4	15.1	126.7	49.6	175.7	2.1	2.4	48.5
Mineola	–	97	26	2.0	21.6	1.5	3.0	13.5	50.0	49.4	97.6	2.1	2.4	42.8
Mount Kisco	E2	22	7	0.9	9.6	0.6	1.2	5.6	17.6	15.0	33.2	1.4	0.7	9.8
Mount Vernon	E1	290	103	8.7	99.7	6.2	11.5	52.3	212.0	330.1	538.3	9.4	8.9	146.8
Newark	–	18	8	1.3	12.1	1.0	2.1	8.4	18.1	21.8	40.0	0.3	1.1	15.6
Newburgh	–	80	43	3.5	32.5	2.8	5.2	22.7	66.3	63.7	127.5	3.2	5.2	66.5
New Hyde Park	E1	54	21	1.8	22.0	1.3	2.5	14.6	41.9	27.5	68.9	1.1	1.5	30.0
New Rochelle	–	114	34	3.5	44.7	2.2	3.9	22.4	102.6	126.0	228.0	2.9	3.7	52.6
New York	E1	21 460	6 607	609.7	7 640.0	386.9	710.1	3 386.6	14 606.2	15 116.1	29 559.7	560.4	757.5	11 579.4
Niagara Falls	–	91	42	10.7	176.0	7.1	14.6	107.2	512.5	430.3	928.6	75.9	11.8	264.7
North Tarrytown	–	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
North Tonawanda	–	72	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.4	97.4
Norwich	–	21	9	1.6	19.8	0.9	1.9	6.9	11.1	18.0	33.9	0.7	3.2	71.0
Nyack	–	12	6	0.5	4.5	0.3	0.5	2.4	8.4	12.7	21.2	0.3	0.8	8.2
Oceanside (U)	E2	77	21	1.3	13.9	0.9	1.7	8.7	30.9	23.3	53.8	1.8	1.1	20.8
Ogdensburg	–	21	7	0.8	7.6	0.6	1.3	5.7	22.6	16.6	38.3	1.6	0.9	12.6
Olean	–	35	17	4.9	66.2	3.2	5.8	39.6	184.1	118.8	304.0	6.1	4.0	78.7
Oneida	E1	27	12	0.9	11.3	0.5	1.0	4.4	14.1	45.1	57.4	2.1	0.9	10.0
Oneonta	–	16	7	0.5	4.4	0.4	0.8	2.9	9.6	13.1	22.2	0.8	0.9	12.0
Ossining	–	35	12	0.9	11.7	0.7	1.3	6.1	18.5	17.0	34.8	1.9	1.1	14.4
Oswego	–	22	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	16.4
Owego	–	15	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Palmyra	–	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Patchogue	–	46	12	0.7	6.1	0.6	1.0	4.6	17.1	22.0	39.3	0.6	1.1	11.5
Peekskill	E1	43	14	1.2	12.1	0.9	1.7	7.6	32.8	19.6	53.4	2.1	(D)	(D)
Pelham Manor	E1	20	6	1.0	9.3	0.6	0.8	3.9	22.6	29.7	50.7	0.7	1.6	29.4
Perry	–	8	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	7.9
Plainview (U)	E1	118	59	4.8	58.5	3.1	5.8	29.2	126.2	95.4	218.9	6.2	7.4	117.6
Plattsburgh	–	37	12	1.9	23.3	1.5	2.9	17.0	51.8	71.9	120.8	4.4	1.8	28.8
Pleasantville	–	17	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Port Chester	E1	74	18	2.1	23.1	1.6	3.1	14.6	86.5	42.9	129.3	4.1	3.0	60.8
Port Jervis	E1	27	11	1.8	14.6	1.2	2.3	10.0	24.7	12.9	37.9	0.9	1.9	17.3
Poughkeepsie	E1	66	23	2.5	26.6	2.1	4.0	19.8	51.2	31.2	83.3	1.8	4.2	56.9
Rensselaer	–	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	80.6
Rochester	–	621	207	86.5	1 506.8	46.7	90.9	704.1	3 456.1	1 606.0	5 053.3	223.2	89.9	2 393.3
Rockville Centre	E3	35	6	0.5	5.6	0.4	0.8	3.5	10.9	8.9	19.8	1.1	0.5	10.2
Rome	–	55	19	4.6	67.0	3.4	6.7	47.0	129.0	247.5	368.2	6.4	4.7	90.2
Saratoga Springs	–	21	9	0.9	8.6	0.5	0.9	4.1	13.9	31.6	45.5	0.9	1.2	22.9
Schenectady	–	92	36	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Seneca Falls	–	20	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	71.1
Sherrill	–	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sidney	–	6	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Solvay	–	10	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Springville	–	11	4	0.7	8.7	0.5	1.0	5.7	19.6	12.3	31.1	1.0	0.5	6.6
Suffern	–	16	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Syracuse	–	259	89	19.7	304.5	11.2	21.4	149.5	569.3	388.1	954.1	24.9	25.7	471.4
Tarrytown	–	24	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	7.5
Ticonderoga	–	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Tonawanda	–	52	20	1.7	23.8	1.1	2.0	11.6	39.3	43.8	82.7	2.0	13.3	301.6
Troy	–	53	17	2.9	32.5	1.8	3.2	16.9	63.2	54.0	118.1	2.2	4.7	65.3
Tuckahoe	–	21	7	0.7	7.7	0.5	0.9	4.2	16.1	13.4	29.2	1.6	0.5	7.9
Utica	–	118	43	7.0	79.0	4.7	8.6	45.2	159.1	159.6	313.7	8.2	7.1	139.3
Valley Stream	E5	91	13	1.1	12.8	0.8	1.6	7.8	22.7	14.7	37.2	1.3	1.1	15.0
Walden	–	22	12	0.9	8.5	0.7	1.4	5.8	19.3	15.7	34.6	0.8	0.9	16.1
Walton	–	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Watertown	–	38	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	56.8
Watervliet	–	18	7	1.8	25.3	1.3	2.6	16.6	34.9	51.2	93.2	(D)	4.6	69.9
Watkins Glen	–	9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	11.5
Webster	–	15	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wellsville	–	9	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Westbury	E1	42	9	0.7	8.9	0.5	1.0	5.8	17.8	21.7	39.1	1.8	1.2	20.0
Westfield	–	15	7	1.0	14.0	0.5	0.9	4.8	17.3	24.7	43.0	1.5	0.9	10.6
West Haverstraw	E1	23	7	0.6	5.9	0.5	0.9	4.2	11.1	8.4	19.7	0.2	0.6	6.5
White Plains	E2	85	26	11.2	218.9	0.9	1.6	9.2	57.3	32.7	89.2	1.6	5.4	18.6
Yonkers	–	248	75	8.9	116.8	5.2	10.3	52.3	242.1	320.7	570.9	14.0	12.5	202.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	–	36 578	11 425	1 509.9	20 876.1	958.1	1 827.5	10 418.8	44 289.8	42 441.9	86 216.4	2 530.2	1 679.3	30 403.5
20	**Food and kindred products**	–	1 852	613	75.2	984.5	51.9	104.1	604.1	3 311.1	5 622.4	8 927.0	191.0	92.3	2 328.1
201	Meat products	E1	246	80	7.5	103.3	5.8	11.8	73.3	234.2	669.3	900.9	11.3	9.8	182.3
2011	Meat packing plants	E3	90	16	2.2	29.3	1.6	3.3	20.5	65.2	236.5	301.0	2.4	2.9	57.3
2013	Sausages and other prepared meats	–	137	57	4.7	68.6	3.6	7.5	48.6	157.1	399.5	555.8	7.3	5.7	103.9
2016	Poultry dressing plants	–	12	5	0.4	3.4	0.4	0.6	2.6	7.1	18.8	25.4	(D)	CC	(D)
2017	Poultry and egg processing	E1	7	2	0.2	1.9	0.2	0.4	1.6	4.7	14.6	18.8	(D)	BB	(D)
202	Dairy products	–	313	110	10.1	133.6	6.2	12.8	76.2	372.6	1 333.5	1 706.2	21.3	12.7	274.6
2022	Cheese, natural and processed	–	44	23	1.7	18.0	1.3	2.7	13.4	52.8	240.8	299.0	4.0	EE	(D)
2023	Condensed and evaporated milk	–	18	7	0.6	6.6	0.5	0.9	4.8	25.5	159.0	183.3	1.5	0.7	16.6
2024	Ice cream and frozen desserts	–	62	19	2.1	28.3	1.2	2.4	14.9	71.6	134.9	206.3	6.4	2.4	61.9
2026	Fluid milk	–	187	61	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.3	174.7
203	Preserved fruits and vegetables	–	191	86	10.9	114.6	8.4	16.4	75.0	478.3	582.5	1 060.8	13.1	12.9	346.5
2032	Canned specialties	–	17	7	1.7	18.7	1.3	2.6	13.1	74.4	91.8	166.4	1.3	1.4	79.5
2033	Canned fruits and vegetables	–	77	40	4.0	41.8	3.2	6.5	27.2	169.6	259.3	428.6	6.5	4.7	83.4
2034	Dehydrated fruits, vegetables, and soups	–	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2035	Pickles, sauces, and salad dressings	E1	45	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	51.0
2037	Frozen fruits and vegetables	–	15	8	1.2	10.8	1.0	1.9	8.0	41.1	49.1	90.3	1.4	EE	(D)
2038	Frozen specialties	–	30	15	2.4	25.9	1.7	3.1	15.3	137.6	105.8	243.4	2.0	2.5	60.3
204	Grain mill products	–	100	41	5.2	81.2	4.0	8.6	59.0	380.5	623.3	1 002.0	11.6	4.6	162.7
2041	Flour and other grain mill products	–	15	9	1.1	19.5	0.9	1.9	15.0	58.4	240.6	299.8	1.6	0.9	30.1
2043	Cereal breakfast foods	–	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2045	Blended and prepared flour	–	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	16.8
2047	Dog, cat, and other pet food	–	14	8	1.1	15.0	0.9	1.8	11.5	115.9	73.6	188.8	3.6	CC	(D)
2048	Prepared feeds, n.e.c.	–	59	13	0.9	10.6	0.6	1.2	6.1	33.7	186.5	220.1	1.6	1.3	23.4
205	Bakery products	E1	411	96	14.4	187.8	8.6	16.6	97.1	442.4	334.7	777.1	13.0	18.0	310.7
2051	Bread, cake, and related products	E1	376	85	13.3	172.6	7.7	15.0	88.5	403.0	315.4	718.3	12.5	16.7	288.2
2052	Cookies and crackers	E1	35	11	1.1	15.3	0.8	1.6	8.6	32.6	26.1	58.8	1.0	1.3	22.5
206	Sugar and confectionery products	–	94	36	9.7	115.6	7.6	14.8	83.1	522.7	608.1	1 131.1	41.5	9.0	248.5
2062	Cane sugar refining	–	7	5	1.6	27.0	1.0	2.0	16.8	88.5	277.8	366.4	23.9	EE	(D)
2065	Confectionery products	–	76	26	4.0	39.9	3.2	6.2	28.5	116.5	106.6	224.7	5.8	3.9	61.8
2066	Chocolate and cocoa products	–	8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2067	Chewing gum	–	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
207	Fats and oils	–	24	6	0.5	8.5	0.4	0.7	5.2	32.3	113.5	146.8	2.8	0.8	29.9
2077	Animal and marine fats and oils	E2	16	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	12.7
2079	Shortening and cooking oils	–	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
208	Beverages	–	205	85	10.3	166.0	6.1	12.2	87.9	577.4	873.3	1 451.1	61.1	16.6	578.6
2082	Malt beverages	–	12	5	2.9	59.1	2.1	4.3	41.2	170.0	327.2	495.1	38.2	6.3	245.2
2084	Wines, brandy, and brandy spirits	–	24	10	1.4	20.6	0.9	1.8	8.9	72.3	94.2	168.8	4.0	1.6	63.7
2086	Bottled and canned soft drinks	–	126	57	5.2	74.3	2.5	4.9	31.6	216.8	352.7	568.9	17.0	7.2	180.1
2087	Flavoring extracts and sirups, n.e.c.	E1	37	10	0.7	10.4	0.4	1.0	4.9	111.9	78.8	190.4	1.7	1.2	76.8
209	Miscellaneous foods and kindred products	–	268	73	6.6	73.9	5.0	10.2	47.3	270.7	484.1	751.2	15.4	8.0	194.2
2091	Canned and cured seafoods	–	17	9	0.5	5.6	0.4	0.7	3.6	18.4	32.6	51.2	0.4	0.6	10.5
2092	Fresh or frozen packaged fish	E1	22	4	0.4	3.7	0.3	0.7	2.6	10.2	18.9	29.5	(D)	0.5	6.0
2095	Roasted coffee	–	20	12	0.6	9.0	0.4	0.8	4.2	52.7	198.9	248.6	0.8	0.7	30.7
2098	Macaroni and spaghetti	–	38	11	1.4	14.7	1.0	2.3	9.5	47.1	54.1	101.3	1.5	1.4	23.2
2099	Food preparations, n.e.c.	–	149	35	3.6	39.5	2.8	5.6	26.5	139.6	178.2	316.4	11.8	4.6	120.1
21	**Tobacco products**	–	13	4	0.3	3.4	0.3	0.6	2.4	12.9	11.5	24.0	(D)	AA	(D)
2131	Chewing and smoking tobacco	–	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
22	**Textile mill products**	E2	1 243	524	43.0	402.7	36.1	70.6	288.4	756.9	1 150.3	1 905.5	62.0	55.6	777.3
2211	Weaving mills, cotton	E2	20	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2221	Weaving mills, manmade fiber and silk	E2	20	7	0.8	8.2	0.6	1.2	6.2	9.8	16.3	26.5	1.2	1.2	14.1
2231	Weaving and finishing mills, wool	E1	23	7	0.9	11.8	0.5	1.2	6.0	21.9	7.4	29.8	1.7	1.3	21.2
2241	Narrow fabric mills	E1	51	12	1.6	15.2	1.2	2.3	9.3	34.6	27.0	60.5	1.7	2.0	22.8

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
22	**Textile mill products—Con.**														
225	Knitting mills	E2	791	377	29.1	256.0	25.2	48.1	187.8	471.7	819.3	1 287.7	41.2	35.7	512.6
2251	Women's hosiery, except socks	E9	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	0.8
2252	Hosiery, n.e.c.	–	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2253	Knit outerwear mills	E2	477	254	17.5	149.1	15.1	28.1	110.1	259.9	372.7	628.4	17.1	20.6	239.8
2254	Knit underwear mills	–	14	9	1.0	7.2	1.0	1.7	6.0	15.4	14.9	29.8	0.1	EE	(D)
2257	Circular knit fabric mills	E1	157	61	5.9	59.8	5.0	10.2	43.0	116.2	270.2	389.1	9.4	8.4	181.4
2258	Warp knit fabric mills	–	51	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.3	50.2
2259	Knitting mills, n.e.c.	E4	79	24	1.6	11.8	1.4	2.7	9.2	15.6	27.2	42.6	(D)	EE	(D)
226	Textile finishing, except wool	E2	99	42	3.1	33.7	2.6	5.7	26.0	57.2	62.2	122.3	5.7	6.0	76.5
2261	Finishing plants, cotton	E5	28	6	0.4	4.8	0.3	0.7	3.9	5.4	7.8	15.3	0.6	1.6	25.4
2262	Finishing plants, synthetics	E1	45	27	2.0	22.4	1.7	3.8	16.8	40.6	46.6	88.0	3.2	2.4	27.7
2269	Finishing plants, n.e.c.	E2	26	9	0.6	6.5	0.6	1.2	5.3	11.2	7.8	19.0	1.8	1.9	23.4
227	Floor covering mills	E6	13	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2272	Tufted carpets and rugs	E6	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
228	Yarn and thread mills	E2	50	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2281	Yarn mills, except wool	E1	21	5	1.2	11.1	0.9	1.8	7.7	16.4	23.9	43.5	0.2	0.5	3.7
2282	Throwing and winding mills	E4	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
229	Miscellaneous textile goods	E1	176	62	5.0	54.2	4.0	7.9	36.1	119.0	160.5	276.1	5.5	7.4	106.1
2291	Felt goods, except woven felts and hats	–	4	4	1.0	13.0	0.7	1.3	7.3	25.5	14.5	39.8	0.9	1.1	19.1
2292	Lace goods	E1	14	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.5
2293	Paddings and upholstery filling	E2	10	4	0.3	2.9	0.2	0.5	2.0	6.5	7.6	14.1	0.2	0.5	6.1
2295	Coated fabrics, not rubberized	–	23	15	0.8	9.6	0.6	1.2	5.7	20.8	37.1	57.6	1.3	1.7	31.9
2296	Tire cord and fabric	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2297	Nonwoven fabrics	–	14	8	0.5	5.4	0.4	0.7	3.3	16.0	29.1	44.4	0.8	BB	(D)
2298	Cordage and twine	–	10	6	0.6	6.6	0.5	1.1	4.7	15.5	15.4	29.7	0.4	1.5	13.3
2299	Textile goods, n.e.c.	E4	93	19	1.1	9.8	0.9	1.9	7.2	20.0	25.8	45.4	1.6	1.3	17.9
23	**Apparel and other textile products**	E1	**7 797**	**3 082**	**214.4**	**1 751.8**	**177.4**	**308.2**	**1 183.8**	**3 889.7**	**5 302.8**	**9 117.6**	**78.8**	**247.3**	**3 160.3**
2311	Men's and boys' suits and coats	E1	174	82	15.4	143.5	13.3	23.9	113.1	259.1	217.4	475.6	4.2	23.5	286.3
232	Men's and boys' furnishings	E1	500	212	22.0	168.7	17.3	30.5	109.3	399.4	654.0	1 024.0	13.4	20.5	314.1
2321	Men's and boys' shirts and nightwear	–	156	69	6.1	49.5	5.0	9.0	29.2	161.8	333.6	463.2	1.8	6.9	107.5
2322	Men's and boys' underwear	E1	12	4	0.3	1.9	0.2	0.4	1.4	3.9	5.0	9.8	(Z)	CC	(D)
2323	Men's and boys' neckwear	E3	87	35	2.3	22.8	1.9	3.4	14.5	45.8	43.8	87.9	1.6	FF	(D)
2327	Men's and boys' separate trousers	E1	103	33	7.8	53.3	5.5	8.9	34.7	108.3	159.0	269.6	3.5	2.8	61.8
2328	Men's and boys' work clothing	E3	32	20	0.9	6.5	0.8	1.4	5.0	13.0	15.4	28.6	0.2	1.1	23.7
2329	Men's and boys' clothing, n.e.c.	E1	110	51	4.5	34.7	3.9	7.5	24.5	66.6	97.1	165.0	6.2	4.8	55.8
233	Women's and misses' outerwear	E2	4 043	1 816	108.3	863.5	90.0	153.9	577.5	2 023.6	2 626.2	4 618.4	37.6	115.5	1 425.3
2331	Women's and misses' blouses and waists	–	353	197	12.4	103.3	10.3	17.5	65.3	331.9	427.1	755.6	6.1	10.5	160.6
2335	Women's and misses' dresses	E3	2 450	957	54.0	406.6	45.3	77.6	279.3	837.3	964.5	1 792.1	17.0	64.0	716.5
2337	Women's and misses' suits and coats	E1	648	349	20.8	185.5	17.1	30.0	123.3	420.2	595.5	1 011.4	5.4	25.1	353.0
2339	Women's and misses' outerwear, n.e.c.	E2	592	313	21.2	188.1	17.3	28.8	109.6	434.2	639.0	1 059.2	9.1	16.2	195.3
234	Women's and children's undergarments	–	332	166	12.6	101.1	9.8	17.2	56.5	229.8	350.5	577.7	2.6	16.9	246.4
2341	Women's and children's underwear	E1	266	132	8.8	70.1	7.0	12.4	41.5	161.7	257.7	416.6	1.7	9.8	147.8
2342	Brassieres and allied garments	–	66	34	3.8	31.0	2.8	4.8	15.0	68.2	92.8	161.1	0.9	7.1	99.7
235	Hats, caps, and millinery	E3	181	54	3.3	24.4	2.8	4.8	17.5	42.1	46.8	88.6	0.7	3.7	37.5
2351	Millinery	E3	95	26	1.4	11.2	1.1	1.9	7.2	19.9	26.3	46.0	0.1	EE	(D)
2352	Hats and caps, except millinery	E3	86	28	1.9	13.2	1.7	2.9	10.2	22.2	20.5	42.6	0.6	EE	(D)
236	Children's outerwear	E1	321	169	10.9	82.1	9.1	16.1	56.9	181.6	259.0	439.7	2.3	15.3	205.9
2361	Children's dresses and blouses	E1	154	91	5.6	44.0	4.5	8.3	29.2	103.4	141.5	241.9	1.1	6.7	97.5
2363	Children's coats and suits	E1	46	19	1.3	10.3	1.1	1.8	7.1	21.5	34.7	55.4	0.5	2.8	35.0
2369	Children's outerwear, n.e.c.	E2	121	59	4.0	27.8	3.5	6.0	20.6	56.7	82.9	142.3	0.8	5.7	73.5
2371	Fur goods	E2	531	40	3.4	45.2	2.6	4.3	31.6	101.5	250.1	349.0	0.4	3.9	76.3
238	Miscellaneous apparel and accessories	E1	489	205	12.8	102.1	11.0	18.9	70.1	222.9	274.6	491.1	7.0	17.1	214.5
2381	Fabric dress and work gloves	E1	21	7	0.3	2.2	0.3	0.5	1.8	6.4	5.8	12.3	(D)	0.3	3.1
2384	Robes and dressing gowns	E1	68	42	3.2	24.3	2.7	4.7	16.9	64.6	85.3	147.1	1.5	3.6	46.8
2385	Waterproof outer garments	E1	62	37	1.9	15.3	1.6	2.7	9.7	37.4	43.4	80.5	2.5	3.6	46.3
2386	Leather and sheep lined clothing	E1	116	37	2.3	20.3	2.0	3.4	15.1	33.7	59.5	92.3	0.4	2.5	32.8
2387	Apparel belts	E1	142	55	3.2	25.7	2.7	4.5	16.3	48.4	48.1	95.0	0.9	5.1	63.8
2389	Apparel and accessories, n.e.c.	–	80	27	1.9	14.4	1.7	3.0	10.3	32.4	32.5	63.9	1.8	2.0	21.7

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
23	**Apparel and other textile products**—Con.													
239	Miscellaneous fabricated textile products	E1	1 226	338	25.8	221.2	21.6	38.8	151.4	429.7	624.3	1 053.4	10.5	30.8	354.1
2391	Curtains and draperies	E1	175	41	2.9	24.5	2.5	4.3	17.2	54.5	109.3	163.3	0.6	3.6	41.0
2392	House furnishings, n.e.c.	E1	272	85	8.0	61.9	6.5	12.1	40.3	124.8	233.0	356.2	3.4	8.5	111.6
2393	Textile bags	E1	32	10	0.9	7.0	0.7	1.3	4.6	11.3	14.6	26.0	0.2	1.0	9.5
2394	Canvas and related products	E1	83	15	1.6	13.2	1.3	2.3	9.3	22.0	23.8	45.1	0.6	1.3	14.0
2395	Pleating and stitching	E1	254	75	5.3	44.8	4.5	7.8	31.0	89.8	111.8	202.1	2.4	6.8	73.8
2396	Automotive and apparel trimmings	E3	258	69	4.1	45.0	3.5	6.3	31.7	77.4	86.3	164.6	1.8	5.7	66.5
2397	Schiffli machine embroideries	E1	19	5	0.3	2.2	0.2	0.4	1.6	6.3	5.8	11.9	0.2	0.3	4.0
2399	Fabricated textile products, n.e.c.	E2	133	38	2.8	22.7	2.4	4.1	15.8	43.7	39.7	84.2	1.3	3.5	33.7
24	**Lumber and wood products**	**E1**	**1 119**	**184**	**14.8**	**144.9**	**12.4**	**23.5**	**102.4**	**273.2**	**378.7**	**650.6**	**(D)**	**17.6**	**240.8**
2411	Logging camps and logging contractors	E1	188	6	0.9	11.0	0.7	1.4	7.9	19.0	67.6	88.4	4.6	0.5	4.9
242	Sawmills and planing mills	E2	260	46	3.1	26.9	2.7	5.5	21.6	59.7	62.0	121.3	7.1	3.2	39.4
2421	Sawmills and planing mills, general	E2	210	28	2.1	19.3	1.9	3.9	15.5	47.6	48.0	95.2	6.3	1.9	27.9
2426	Hardwood dimension and flooring	E1	49	17	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
243	Millwork, plywood, and structural members	E2	291	53	4.8	49.4	4.0	7.5	34.8	90.1	111.9	199.5	3.7	6.0	82.9
2431	Millwork	E1	132	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	42.2
2434	Wood kitchen cabinets	E2	133	21	1.9	19.1	1.5	2.8	13.9	32.5	22.7	55.0	0.7	2.1	25.5
2435	Hardwood veneer and plywood	E3	12	4	0.3	3.1	0.3	0.6	2.5	5.3	5.3	10.5	0.2	CC	(D)
2436	Softwood veneer and plywood	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
244	Wood containers	E1	90	18	1.2	10.9	1.1	2.0	7.7	18.0	22.1	39.9	1.1	1.5	14.5
2441	Nailed wood boxes and shook	E2	31	5	0.3	2.8	0.3	0.6	2.0	4.2	5.5	9.6	0.2	0.8	6.0
2448	Wood pallets and skids	E1	50	11	0.7	6.3	0.6	1.1	4.4	10.9	14.1	25.0	0.9	0.5	6.1
2449	Wood containers, n.e.c.	–	9	2	0.2	1.8	0.2	0.3	1.3	2.9	2.5	5.3	0.1	0.2	2.4
245	Wood buildings and mobile homes	E1	28	13	1.0	11.8	0.7	1.3	6.4	20.9	48.3	69.1	(D)	2.0	43.8
2451	Mobile homes	–	5	4	0.3	3.3	0.2	0.4	2.1	5.0	13.5	18.8	0.1	0.3	2.8
2452	Prefabricated wood buildings	E1	23	9	0.7	8.5	0.5	0.8	4.3	15.9	34.8	50.3	(D)	1.8	41.0
249	Miscellaneous wood products	E2	262	48	3.8	34.9	3.1	5.8	24.1	65.5	66.8	132.5	3.3	4.5	55.2
2499	Wood products, n.e.c.	E2	256	48	3.7	34.5	3.1	5.8	23.8	64.7	64.9	129.8	3.2	FF	(D)
25	**Furniture and fixtures**	**E1**	**1 028**	**257**	**24.3**	**250.6**	**19.7**	**37.8**	**176.2**	**463.6**	**385.9**	**843.8**	**18.6**	**28.3**	**395.7**
251	Household furniture	E2	537	121	11.4	107.7	9.6	18.2	78.3	194.4	175.0	367.8	(D)	14.0	174.4
2511	Wood household furniture	E2	279	61	5.7	49.7	4.9	9.5	39.1	85.5	68.9	153.6	4.3	5.5	59.4
2512	Upholstered household furniture	E1	84	17	2.1	19.3	1.7	3.1	14.5	33.8	30.1	63.7	0.5	FF	(D)
2514	Metal household furniture	E2	76	22	2.1	23.2	1.8	3.4	14.7	42.9	39.0	81.6	(D)	FF	(D)
2515	Mattresses and bedsprings	E2	70	15	1.0	10.8	0.7	1.3	6.8	22.0	26.5	48.4	0.3	1.9	25.3
2517	Wood TV and radio cabinets	E5	11	2	0.2	1.6	0.2	0.3	1.2	2.5	2.2	4.7	(Z)	AA	(D)
2519	Household furniture, n.e.c.	–	17	4	0.4	3.2	0.3	0.7	2.0	7.7	8.3	15.9	0.6	0.6	9.3
252	Office furniture	E1	60	27	3.6	37.2	2.8	5.5	25.4	75.5	47.0	121.0	(D)	3.9	63.6
2521	Wood office furniture	–	32	11	1.2	11.9	0.9	1.9	9.0	20.3	13.8	34.2	0.5	1.1	17.4
2522	Metal office furniture	E1	28	16	2.4	25.2	1.8	3.6	16.4	55.2	33.2	86.8	(D)	2.8	46.2
2531	Public building and related furniture	E1	16	2	0.4	4.6	0.2	0.5	2.3	7.5	7.8	15.4	(D)	0.8	16.2
254	Partitions and fixtures	E1	272	77	6.3	72.6	5.0	9.6	51.3	129.7	103.4	230.6	(D)	6.9	107.6
2541	Wood partitions and fixtures	E1	167	45	3.4	42.2	2.8	5.4	31.1	70.5	49.8	118.6	(D)	3.8	62.2
2542	Metal partitions and fixtures	E2	105	32	2.8	30.4	2.2	4.2	20.2	59.2	53.5	112.0	3.7	3.2	45.3
259	Miscellaneous furniture and fixtures	E1	143	30	2.7	28.5	2.1	4.0	18.9	56.5	52.8	108.9	(D)	2.7	33.8
2591	Drapery hardware and blinds and shades	E2	84	12	1.0	9.9	0.8	1.5	6.7	20.9	20.6	41.2	0.7	1.1	12.5
2599	Furniture and fixtures, n.e.c.	–	59	18	1.7	18.7	1.3	2.5	12.2	35.6	32.2	67.7	(D)	1.5	21.3
26	**Paper and allied products**	**E1**	**759**	**401**	**48.1**	**585.8**	**36.3**	**73.5**	**409.1**	**1 205.1**	**1 644.3**	**2 838.7**	**118.2**	**50.7**	**836.9**
2621	Paper mills, except building paper	–	43	35	8.3	130.7	6.6	14.3	100.8	282.2	457.6	736.8	50.7	9.6	186.5
2631	Paperboard mills	–	16	12	1.1	15.0	0.9	2.0	12.1	30.0	38.3	69.0	11.4	EE	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
26	**Paper and allied products**—Con.													
264	Miscellaneous converted paper products	E1	414	179	19.0	224.0	14.9	29.8	149.2	481.9	644.1	1 119.3	33.1	19.4	317.6
2641	Paper coating and glazing	E2	48	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	37.3
2642	Envelopes	-	39	28	3.3	36.0	2.6	5.0	25.5	75.0	76.8	150.8	4.0	2.9	44.1
2643	Bags, except textile bags	E2	91	44	4.9	57.9	3.8	7.5	35.3	118.7	169.0	286.7	13.0	5.2	79.4
2645	Die-cut paper and board	E1	74	28	2.1	26.6	1.7	3.4	17.9	52.5	58.2	109.9	2.7	FF	(D)
2646	Pressed and molded pulp goods	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2647	Sanitary paper products	-	16	8	1.2	16.0	1.0	2.1	12.5	54.8	103.1	156.9	3.3	1.0	35.5
2648	Stationery products	E4	38	12	0.8	7.4	0.6	1.2	5.2	17.1	21.9	38.7	0.4	1.5	21.3
2649	Converted paper products, n.e.c.	E2	104	38	4.3	49.6	3.3	6.6	31.6	100.3	135.7	234.3	7.4	2.7	44.6
265	Paperboard containers and boxes	-	281	172	17.2	209.0	13.5	26.6	142.0	392.2	475.0	865.5	21.0	20.0	299.1
2651	Folding paperboard boxes	-	81	49	5.7	72.6	4.7	9.0	51.5	142.2	159.1	300.0	5.6	5.2	88.7
2652	Setup paperboard boxes	E2	62	39	2.9	24.7	2.5	4.5	17.5	41.8	27.2	69.2	1.6	4.1	45.9
2653	Corrugated and solid fiber boxes	E1	103	70	6.6	87.5	4.8	9.6	55.3	162.6	234.6	396.6	11.7	7.5	123.3
2654	Sanitary food containers	-	18	7	1.1	14.0	0.9	2.0	9.8	26.4	35.5	61.9	1.1	2.2	28.4
2655	Fiber cans, drums, and similar products	-	17	7	0.9	10.3	0.7	1.5	7.8	19.2	18.6	37.7	0.9	1.0	12.9
2661	Building paper and board mills	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
27	**Printing and publishing**	-	**6 301**	**1 204**	**154.3**	**2 296.9**	**69.8**	**127.8**	**926.1**	**6 351.9**	**3 461.0**	**9 823.6**	**206.6**	**164.9**	**4 222.7**
2711	Newspapers	-	520	134	30.3	484.7	14.5	23.4	237.1	956.7	382.7	1 339.3	51.4	33.0	686.2
2721	Periodicals	-	568	145	28.8	477.9	2.1	4.0	31.5	2 004.7	1 198.8	3 196.5	24.5	26.0	1 069.4
273	Books	-	589	167	27.0	394.6	6.1	12.4	69.7	1 590.3	785.3	2 394.2	34.3	28.2	1 046.3
2731	Book publishing	-	424	112	21.8	328.8	2.1	4.6	24.1	1 483.0	699.9	2 198.7	30.2	22.7	951.6
2732	Book printing	E1	165	55	5.2	65.8	4.0	7.8	45.6	107.3	85.4	195.5	4.0	5.4	94.8
2741	Miscellaneous publishing	E1	477	65	8.0	99.4	2.1	3.9	17.4	256.6	109.4	364.7	5.2	8.7	172.8
275	Commercial printing	E1	3 135	430	40.1	569.6	29.9	55.5	384.3	1 036.3	760.2	1 793.4	67.8	44.4	825.2
2751	Commercial printing, letterpress	E3	1 688	164	13.3	161.9	10.3	18.6	108.1	297.8	226.0	522.9	20.4	17.9	295.8
2752	Commercial printing, lithographic	E1	1 317	245	24.0	369.7	17.5	33.3	247.4	656.3	495.9	1 149.0	41.9	23.9	476.8
2753	Engraving and plate printing	-	75	15	2.2	31.4	1.7	2.8	23.7	70.6	21.2	92.8	3.9	1.9	38.1
2754	Commercial printing, gravure	E1	55	6	0.6	6.6	0.5	0.9	5.1	11.6	17.2	28.8	1.6	0.7	14.6
2761	Manifold business forms	-	72	32	2.7	36.8	2.0	4.0	23.6	86.3	68.7	155.0	4.2	2.5	47.4
2771	Greeting card publishing	E1	40	10	1.0	10.1	0.5	1.0	3.6	23.6	16.3	39.2	0.6	2.1	42.3
278	Blankbooks and bookbinding	E1	330	103	7.3	74.8	6.2	12.0	56.2	136.0	64.9	200.3	5.3	9.8	138.1
2782	Blankbooks and looseleaf binders	E1	91	45	3.1	29.1	2.6	5.0	20.0	55.9	42.3	98.0	2.7	4.6	68.6
2789	Bookbinding and related work	E1	239	58	4.2	45.7	3.7	7.0	36.2	80.1	22.6	102.2	2.6	5.3	69.5
279	Printing trade services	E1	570	118	9.1	148.9	6.4	11.7	102.8	261.2	74.7	341.1	13.3	10.2	195.0
2791	Typesetting	E1	380	81	5.1	78.4	3.9	7.1	58.1	139.1	24.0	162.1	6.2	5.6	107.8
2793	Photoengraving	-	67	15	1.9	35.1	1.2	2.1	23.0	62.2	14.9	77.2	3.7	2.7	49.5
2795	Lithographic platemaking services	-	120	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	28.5
28	**Chemicals and allied products**	-	**939**	**295**	**51.6**	**758.9**	**31.8**	**62.8**	**395.2**	**3 121.4**	**2 277.4**	**5 357.8**	**300.3**	**53.1**	**2 004.3**
281	Industrial inorganic chemicals	-	54	22	5.0	88.3	3.6	7.4	60.0	284.0	231.2	512.4	64.2	4.9	139.6
2812	Alkalies and chlorine	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2813	Industrial gases	-	17	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2816	Inorganic pigments	-	7	4	1.0	16.5	0.8	1.6	11.5	51.1	59.5	106.7	(D)	1.3	31.3
2819	Industrial inorganic chemicals, n.e.c.	-	28	13	1.9	34.3	1.3	2.7	21.3	136.7	107.7	244.5	33.1	1.7	58.7
282	Plastics materials and synthetics	-	20	10	1.9	32.1	1.3	2.7	17.9	104.0	144.6	246.4	13.6	2.3	73.7
2821	Plastics materials and resins	-	15	9	1.9	31.2	1.3	2.6	17.4	103.0	142.7	243.5	13.4	2.0	67.7
283	Drugs	-	136	52	18.1	271.9	9.6	18.6	121.0	1 112.3	518.9	1 608.4	41.0	16.4	917.8
2831	Biological products	-	17	9	0.8	10.3	0.5	1.0	5.8	34.9	17.8	51.5	1.6	BB	(D)
2833	Medicinals and botanicals	E1	21	8	0.8	12.6	0.5	1.0	7.2	46.5	39.6	84.1	2.9	CC	(D)
2834	Pharmaceutical preparations	-	98	35	16.5	249.1	8.6	16.5	108.1	1 030.9	461.6	1 472.9	36.5	15.1	879.2
284	Soaps, cleaners, and toilet goods	-	294	82	11.5	136.5	8.0	15.4	78.5	923.8	518.3	1 436.2	27.0	11.4	440.1
2841	Soap and other detergents	-	55	15	2.1	32.9	1.4	3.0	20.8	114.5	175.7	289.8	(D)	2.2	98.7
2842	Polishes and sanitation goods	E1	96	27	2.0	22.3	1.2	2.1	10.1	100.6	81.8	182.0	(D)	2.3	66.9
2844	Toilet preparations	-	135	38	7.3	79.1	5.3	10.2	47.1	704.4	255.3	954.9	12.9	6.8	269.1
2851	Paints and allied products	E1	133	39	3.3	46.5	1.9	4.0	21.7	129.4	177.2	304.4	(D)	4.4	101.1

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
28	**Chemicals and allied products**—Con.														
286	Industrial organic chemicals	–	59	30	7.1	117.9	4.3	8.7	62.0	369.6	329.3	692.9	86.1	8.8	209.2
2865	Cyclic crudes and intermediates	–	12	6	2.8	44.6	1.9	3.5	28.4	142.5	100.0	242.3	(D)	2.6	49.1
2869	Industrial organic chemicals, n.e.c.	–	39	23	4.2	72.4	2.4	5.1	33.0	225.1	226.2	445.6	(D)	6.1	158.6
287	Agricultural chemicals	–	46	14	0.9	11.2	0.6	1.2	6.3	36.4	139.4	178.8	(D)	0.7	13.5
2875	Fertilizers, mixing only	–	20	8	0.3	3.6	0.3	0.5	1.7	9.1	52.9	62.6	0.7	0.3	3.7
2879	Agricultural chemicals, n.e.c.	–	20	3	0.4	5.2	0.3	0.5	2.9	17.6	55.5	75.7	6.5	0.2	2.3
289	Miscellaneous chemical products	–	197	46	3.9	54.5	2.4	4.8	27.8	162.0	218.4	378.3	10.8	4.3	109.2
2891	Adhesives and sealants	–	49	15	1.2	16.6	0.7	1.4	7.3	54.8	60.6	114.4	2.4	1.2	27.5
2892	Explosives	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2893	Printing ink	–	28	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2899	Chemical preparations, n.e.c.	–	119	23	1.8	26.0	1.2	2.3	14.0	82.4	134.4	216.0	7.5	2.2	63.7
29	**Petroleum and coal products**	–	**169**	**29**	**2.4**	**40.7**	**1.7**	**3.5**	**26.7**	**128.3**	**629.9**	**755.8**	**18.3**	**FF**	**(D)**
2911	Petroleum refining	–	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
295	Paving and roofing materials	E1	130	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2951	Paving mixtures and blocks	E1	121	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
299	Miscellaneous petroleum and coal products	E1	32	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2992	Lubricating oils and greases	E1	32	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
30	**Rubber and miscellaneous plastics products**	**E1**	**909**	**358**	**34.5**	**371.7**	**27.2**	**52.2**	**244.5**	**808.8**	**811.3**	**1 624.2**	**58.8**	**37.1**	**572.0**
3011	Tires and inner tubes	–	5	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3021	Rubber and plastics footwear	E1	6	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3041	Rubber and plastics hose and belting	–	7	5	0.7	9.5	0.5	1.0	5.4	20.8	21.7	41.8	(D)	EE	(D)
3069	Fabricated rubber products, n.e.c.	E2	79	24	2.5	27.3	2.0	3.9	19.2	46.5	54.7	101.4	3.9	3.6	56.0
3079	Miscellaneous plastics products	E1	812	327	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	29.5	454.6
31	**Leather and leather products**	**E1**	**657**	**295**	**29.3**	**223.1**	**25.4**	**45.7**	**163.9**	**429.2**	**457.6**	**882.8**	**(D)**	**35.8**	**359.8**
3111	Leather tanning and finishing	E1	85	28	2.7	28.2	2.5	5.0	23.5	51.9	76.2	127.6	(D)	2.4	27.8
3131	Boot and shoe cut stock and findings	E2	19	4	0.2	1.8	0.2	0.3	1.4	3.2	4.5	7.6	0.1	0.6	6.1
314	Footwear, except rubber	–	87	53	8.3	57.9	7.3	12.8	46.2	104.0	92.2	197.2	(D)	12.4	121.7
3142	House slippers	–	21	14	2.2	14.3	2.0	3.5	11.0	28.6	25.0	53.1	(D)	FF	(D)
3143	Men's footwear, except athletic	–	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3144	Women's footwear, except athletic	–	39	23	3.4	23.8	2.9	5.1	18.1	40.6	28.6	70.3	1.3	5.3	54.7
3149	Footwear, except rubber, n.e.c.	E5	18	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	20.3
3151	Leather gloves and mittens	–	30	16	1.4	8.5	1.1	1.8	5.4	15.3	36.4	50.8	0.3	EE	(D)
3161	Luggage	E1	75	39	3.9	31.0	3.4	6.1	21.5	60.8	55.3	114.9	(D)	3.4	35.5
317	Handbags and other personal leather goods	E1	274	139	11.6	86.3	10.0	18.0	60.0	177.5	174.4	350.3	(D)	14.6	141.2
3171	Women's handbags and purses	E1	195	100	8.4	62.4	7.4	13.6	45.3	130.7	125.1	254.7	(D)	10.8	98.8
3172	Personal leather goods	E2	79	39	3.1	23.9	2.6	4.4	14.6	46.9	49.4	95.6	(D)	3.8	42.4
3199	Leather goods, n.e.c.	E3	87	16	1.2	9.4	1.0	1.6	5.9	16.5	18.5	34.3	(D)	EE	(D)
32	**Stone, clay, and glass products**	–	**912**	**211**	**31.2**	**418.5**	**24.0**	**47.7**	**292.7**	**971.1**	**781.1**	**1 751.0**	**97.2**	**36.0**	**738.4**
322	Glass and glassware, pressed or blown	–	36	15	4.7	66.4	4.0	8.1	52.7	215.8	88.6	306.9	30.3	4.5	119.9
3221	Glass containers	–	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3229	Pressed and blown glass, n.e.c.	–	30	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3231	Products of purchased glass	E1	127	34	3.8	44.2	3.1	6.0	31.3	103.9	68.1	170.2	10.8	3.8	63.9
3241	Cement, hydraulic	–	8	6	1.1	20.4	0.9	1.7	16.2	42.1	48.8	88.8	2.5	EE	(D)
325	Structural clay products	E1	15	8	0.7	7.9	0.6	1.1	6.0	15.1	8.6	23.0	0.7	0.7	12.0
3251	Brick and structural clay tile	E2	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3253	Ceramic wall and floor tile	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
32	**Stone, clay, and glass products**—Con.													
326	Pottery and related products	-	48	11	3.1	36.6	2.2	4.5	23.1	71.2	30.5	99.5	7.3	3.1	45.9
3262	Vitreous china food utensils	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3264	Porcelain electrical supplies	-	7	6	1.5	19.3	0.9	1.9	10.5	33.6	20.6	52.4	(D)	1.6	29.2
3269	Pottery products, n.e.c.	E4	33	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.9
327	Concrete, gypsum, and plaster products	E1	447	75	6.5	93.9	4.8	9.7	61.3	182.0	220.7	402.0	21.1	10.2	214.8
3271	Concrete block and brick	E1	69	6	0.7	9.2	0.4	0.8	4.6	18.3	24.2	42.6	1.4	1.1	25.5
3272	Concrete products, n.e.c.	E1	175	31	2.2	28.3	1.7	3.4	18.8	55.7	44.4	98.5	7.5	3.1	58.6
3273	Ready-mixed concrete	E1	193	32	2.9	44.4	2.1	4.0	28.6	84.4	110.1	194.3	7.7	4.5	102.1
3275	Gypsum products	-	10	6	0.8	11.9	0.6	1.5	9.2	23.6	42.0	66.6	4.4	1.4	28.7
3281	Cut stone and stone products	E2	64	9	0.7	7.3	0.5	1.0	5.0	14.0	9.2	23.1	0.5	CC	(D)
329	Miscellaneous nonmetallic mineral products	-	163	53	10.6	141.4	7.9	15.5	96.9	326.1	305.7	635.5	24.0	11.0	212.0
3291	Abrasive products	-	44	20	4.6	65.7	3.5	6.8	45.8	138.7	152.0	292.7	7.0	6.7	132.3
3292	Asbestos products	-	8	3	1.4	18.6	1.1	2.2	14.2	31.6	34.5	67.5	2.2	1.8	33.6
3293	Gaskets, packing, and sealing devices	-	30	12	1.8	19.6	1.3	2.4	12.4	44.6	28.6	73.6	1.8	0.8	11.8
3295	Minerals, ground or treated	-	10	3	0.5	6.7	0.3	0.6	4.0	17.9	12.8	31.0	2.3	BB	(D)
3296	Mineral wool	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3297	Nonclay refractories	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3299	Nonmetallic mineral products, n.e.c.	-	60	8	1.0	12.1	0.8	1.6	8.0	30.4	39.2	70.7	7.2	0.8	10.8
33	**Primary metal industries**	-	466	223	53.5	885.7	41.6	80.9	646.7	1 644.7	3 796.9	5 481.2	191.2	56.4	1 040.2
331	Blast furnace and basic steel products	-	69	36	21.7	408.5	16.8	31.3	304.5	540.0	1 204.9	1 763.9	110.2	21.2	403.9
3312	Blast furnaces and steel mills	-	35	17	19.4	376.9	14.9	27.8	281.3	466.8	1 064.0	1 554.1	(D)	FF	(D)
3313	Electrometallurgical products	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3315	Steel wire and related products	-	21	9	0.9	10.4	0.7	1.3	8.0	19.9	40.0	58.9	2.8	0.4	6.9
3316	Cold finishing of steel shapes	-	6	4	0.7	10.5	0.6	1.0	7.3	28.6	50.4	79.9	(D)	CC	(D)
3317	Steel pipe and tubes	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
332	Iron and steel foundries	-	56	37	6.6	95.9	5.5	10.7	75.4	170.8	137.0	306.1	9.0	6.9	107.9
3321	Gray iron foundries	-	38	22	2.5	35.2	2.0	4.1	26.7	58.6	76.9	134.1	4.0	2.7	40.6
3322	Malleable iron foundries	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3324	Steel investment foundries	E2	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3325	Steel foundries, n.e.c.	-	8	7	3.3	50.8	2.8	5.3	41.3	93.3	50.3	143.3	3.6	FF	(D)
333	Primary nonferrous metals	-	18	5	2.5	44.5	1.9	3.7	32.0	216.0	227.5	440.7	4.3	EE	(D)
3331	Primary copper	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3334	Primary aluminum	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3339	Primary nonferrous metals, n.e.c.	-	15	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	14.8
3341	Secondary nonferrous metals	-	41	12	1.7	26.9	1.2	2.5	16.0	86.3	334.3	410.3	6.2	1.6	42.4
335	Nonferrous rolling and drawing	-	90	59	13.3	201.8	9.9	20.0	140.3	429.1	1 723.7	2 188.6	28.1	16.0	280.0
3351	Copper rolling and drawing	-	12	6	2.6	39.8	2.0	4.1	31.2	77.8	240.6	318.6	3.6	3.2	65.9
3353	Aluminum sheet, plate, and foil	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3354	Aluminum extruded products	-	12	7	0.9	11.0	0.7	1.5	7.7	27.6	59.4	86.1	0.9	CC	(D)
3355	Aluminum rolling and drawing, n.e.c.	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3356	Nonferrous rolling and drawing, n.e.c.	-	29	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	17.3
3357	Nonferrous wire drawing and insulating	-	35	28	6.2	88.9	4.5	8.9	59.6	159.4	382.8	546.6	9.5	8.7	156.7
336	Nonferrous foundries	-	119	54	5.9	82.5	4.8	9.5	60.7	141.4	140.2	282.4	31.0	7.0	102.4
3361	Aluminum foundries	-	50	20	3.0	48.8	2.4	4.9	37.8	78.9	93.8	171.3	(D)	2.8	45.8
3362	Brass, bronze, and copper foundries	-	29	15	0.8	9.1	0.7	1.3	6.4	15.5	11.2	26.9	0.5	0.8	9.0
3369	Nonferrous foundries, n.e.c.	-	40	19	2.1	24.6	1.7	3.3	16.5	47.0	35.3	84.1	(D)	3.4	47.6
339	Miscellaneous primary metal products	E2	73	20	1.8	25.6	1.4	3.3	17.9	60.9	29.2	89.3	2.4	EE	(D)
3398	Metal heat treating	-	46	10	1.2	17.5	1.0	2.3	12.9	43.4	11.8	55.0	1.4	EE	(D)
3399	Primary metal products, n.e.c.	E4	27	10	0.6	8.0	0.5	1.0	5.1	17.6	17.4	34.3	1.0	0.3	5.9
34	**Fabricated metal products**	-	2 542	780	83.0	1 083.4	64.9	129.6	752.2	2 257.0	1 845.5	4 032.0	143.0	92.9	1 613.9
341	Metal cans and shipping containers	-	27	12	1.7	30.7	1.5	3.1	25.5	75.5	117.1	189.9	10.7	2.8	62.6
3411	Metal cans	-	21	8	1.5	27.3	1.3	2.6	22.6	67.9	107.1	172.8	10.6	FF	(D)
3412	Metal barrels, drums, and pails	E3	6	4	0.3	3.4	0.2	0.5	2.9	7.6	9.9	17.1	0.1	BB	(D)
342	Cutlery, hand tools, and hardware	-	187	80	13.5	164.4	10.5	20.9	114.5	370.5	254.5	613.5	20.9	14.0	245.6
3421	Cutlery	-	19	13	2.6	21.2	2.0	3.9	15.3	47.7	31.4	75.8	4.1	1.8	22.6
3423	Hand and edge tools, n.e.c.	-	60	25	4.3	51.6	3.5	7.1	37.2	110.0	74.7	180.1	5.6	4.5	70.7
3425	Hand saws and saw blades	-	10	5	0.5	4.8	0.4	0.7	3.0	9.5	5.5	14.6	0.3	0.9	15.1
3429	Hardware, n.e.c.	-	98	37	6.1	86.8	4.6	9.2	59.0	203.2	142.9	343.0	10.9	6.7	137.1

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
34	**Fabricated metal products**—Con.													
343	Plumbing and heating, except electric	E1	68	25	2.5	29.2	1.9	3.6	18.5	65.5	73.0	136.0	3.9	3.7	68.1
3432	Plumbing fittings and brass goods	E1	19	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	13.9
3433	Heating equipment, except electric	–	47	17	1.7	21.7	1.3	2.4	13.7	50.8	44.9	93.1	(D)	2.6	50.6
344	Fabricated structural metal products	E1	820	227	21.4	287.0	15.3	29.8	179.4	588.6	495.0	1 045.7	22.8	26.0	445.6
3441	Fabricated structural metal	E1	178	45	4.0	56.6	2.9	5.7	34.7	115.8	98.7	209.6	4.3	5.5	112.2
3442	Metal doors, sash, and trim	E1	137	52	4.5	48.4	3.3	6.6	32.0	81.7	90.2	172.9	2.9	FF	(D)
3443	Fabricated plate work (boiler shops)	–	101	37	5.8	86.6	4.0	7.6	53.1	211.4	131.8	311.4	7.2	5.5	114.0
3444	Sheet metal work	E1	244	69	5.1	69.0	3.8	7.3	45.1	126.1	105.6	232.2	5.3	6.0	92.3
3446	Architectural metal work	E2	137	15	1.2	15.4	0.8	1.6	9.4	27.9	23.8	51.6	1.1	2.1	32.1
3448	Prefabricated metal buildings	–	9	3	0.3	4.0	0.3	0.5	2.7	12.3	23.4	33.4	(D)	(NA)	(NA)
3449	Miscellaneous metal work	–	14	6	0.4	6.9	0.2	0.6	2.5	13.4	21.5	34.5	(D)	0.6	11.7
345	Screw machine products, bolts, etc.	E1	167	60	5.0	63.0	4.0	8.4	43.5	117.4	99.1	214.8	9.6	5.5	98.2
3451	Screw machine products	E1	116	40	2.6	32.1	2.1	4.4	23.2	60.3	48.1	108.1	3.6	2.9	47.4
3452	Bolts, nuts, rivets, and washers	E1	51	20	2.5	30.9	1.9	4.0	20.3	57.2	51.0	106.7	6.0	2.7	50.8
346	Metal forgings and stampings	–	292	118	15.1	241.5	12.6	26.0	185.0	472.2	429.5	894.0	41.4	15.3	294.1
3462	Iron and steel forgings	E1	15	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3465	Automotive stampings	–	7	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3466	Crowns and closures	–	4	4	0.4	4.7	0.3	0.6	3.5	9.1	11.7	20.4	0.6	BB	(D)
3469	Metal stampings, n.e.c.	E1	265	98	8.4	99.1	6.6	13.1	66.7	206.1	178.3	381.6	12.8	8.7	140.7
347	Metal services, n.e.c.	E2	444	103	7.2	66.9	6.1	11.9	47.4	118.2	58.4	175.4	(D)	7.2	86.0
3471	Plating and polishing	E2	307	80	5.8	52.6	4.9	9.6	37.4	95.0	43.6	137.7	8.1	5.5	65.0
3479	Metal coating and allied services	E2	137	23	1.5	14.2	1.2	2.3	10.0	23.1	14.8	37.7	(D)	1.7	21.0
348	Ordnance and accessories, n.e.c.	–	21	8	3.6	49.8	3.0	6.1	39.2	124.3	55.3	181.2	(D)	4.3	82.2
3483	Ammunition, except for small arms, n.e.c.	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3484	Small arms	–	11	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
349	Miscellaneous fabricated metal products	E1	516	147	12.8	151.0	10.0	19.8	99.2	324.9	263.7	581.5	18.7	14.1	231.5
3494	Valves and pipe fittings	–	49	21	3.2	42.2	2.4	4.7	27.0	109.1	72.3	179.1	9.5	4.6	87.7
3495	Wire springs	–	16	9	0.6	6.6	0.5	1.0	4.8	14.8	8.7	23.5	0.6	0.7	12.5
3496	Miscellaneous fabricated wire products	E1	123	36	3.1	32.3	2.5	5.3	22.9	67.5	50.3	116.5	2.3	3.8	56.2
3497	Metal foil and leaf	E1	7	4	0.3	3.8	0.2	0.4	2.6	6.4	12.8	19.3	(D)	BB	(D)
3498	Fabricated pipe and fittings	–	30	14	1.2	15.7	0.8	1.7	9.5	27.2	36.2	61.6	1.4	CC	(D)
3499	Fabricated metal products, n.e.c.	E2	286	62	4.4	49.9	3.5	6.7	31.9	98.9	82.1	179.5	4.5	3.6	49.5
35	**Machinery, except electrical**	–	**2 871**	**636**	**133.3**	**2 057.1**	**88.1**	**173.0**	**1 163.5**	**4 784.7**	**3 629.9**	**8 273.0**	**286.8**	**135.1**	**2 983.3**
351	Engines and turbines	–	14	10	13.6	238.8	8.5	17.8	123.1	614.5	464.3	1 035.4	23.0	FF	(D)
3511	Turbines and turbine generator sets	–	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3519	Internal combustion engines, n.e.c.	–	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
352	Farm and garden machinery	–	39	11	2.2	28.5	1.3	2.2	12.8	101.2	63.6	153.6	5.3	1.5	40.4
3523	Farm machinery and equipment	–	34	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3524	Lawn and garden equipment	–	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
353	Construction and related machinery	–	122	40	6.9	94.1	4.4	8.1	52.0	163.1	170.9	335.6	9.6	8.7	151.6
3531	Construction machinery	–	43	14	2.1	25.5	1.6	3.0	17.1	35.7	78.4	122.6	1.7	1.8	29.6
3532	Mining machinery	E1	8	2	0.2	2.1	0.1	0.2	1.4	4.1	3.1	7.2	0.5	(NA)	(NA)
3534	Elevators and moving stairways	E1	11	6	1.3	19.9	0.8	1.5	10.8	26.2	14.0	39.9	(D)	FF	(D)
3535	Conveyors and conveying equipment	–	22	7	1.0	14.1	0.5	0.9	5.8	27.7	21.4	48.1	0.8	1.4	28.7
3536	Hoists, cranes, and monorails	–	10	3	0.7	8.7	0.4	0.9	4.8	16.5	10.1	26.3	(D)	0.8	12.0
3537	Industrial trucks and tractors	–	23	7	1.6	23.2	1.0	1.4	11.7	51.4	42.8	88.6	(D)	EE	(D)
354	Metalworking machinery	–	673	154	18.6	275.2	13.4	26.6	176.3	533.2	236.4	749.9	25.3	17.2	318.9
3541	Machine tools, metal cutting types	–	52	16	4.7	74.2	3.4	6.6	47.8	147.6	57.5	203.8	6.1	4.7	84.3
3542	Machine tools, metal forming types	–	29	11	2.2	35.8	1.4	2.9	21.8	64.5	31.9	95.7	2.9	2.3	36.8
3544	Special dies, tools, jigs, and fixtures	E2	471	90	5.7	78.5	4.7	9.4	57.6	128.0	46.2	173.1	9.8	5.1	89.3
3545	Machine tool accessories	E1	80	18	1.6	22.2	1.2	2.3	13.4	51.6	23.1	73.5	2.3	EE	(D)
3546	Power driven hand tools	–	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3547	Rolling mill machinery	–	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3549	Metalworking machinery, n.e.c.	–	31	12	1.8	28.7	1.2	2.5	17.0	56.9	40.5	88.7	2.5	1.1	20.9

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
35	**Machinery, except electrical**—Con.														
355	Special industry machinery	-	349	103	12.9	189.9	7.7	14.6	93.3	403.0	248.5	636.2	16.6	11.1	190.9
3551	Food products machinery	E2	57	21	1.5	20.2	0.9	1.8	10.0	42.3	27.2	68.5	1.6	EE	(D)
3552	Textile machinery	-	46	14	1.3	16.8	0.7	1.3	8.1	36.3	22.7	58.9	2.7	2.0	31.1
3553	Woodworking machinery	E2	9	5	0.2	2.8	0.1	0.3	1.5	6.3	3.3	9.6	0.2	AA	(D)
3554	Paper industries machinery	-	29	12	2.1	30.4	1.2	2.2	13.7	54.4	41.2	92.4	2.3	1.5	23.6
3555	Printing trades machinery	-	99	22	2.2	31.5	1.6	3.0	18.3	69.9	49.3	118.5	3.4	2.1	40.8
3559	Special industry machinery, n.e.c.	-	109	29	5.6	88.3	3.2	6.0	41.7	193.7	104.8	288.3	6.4	FF	(D)
356	General industrial machinery	-	309	110	23.4	326.9	14.4	28.0	187.5	778.6	507.1	1 280.7	31.9	21.9	395.1
3561	Pumps and pumping equipment	-	27	15	2.7	37.6	1.5	3.0	20.6	100.8	96.2	199.6	(D)	2.6	48.9
3562	Ball and roller bearings	-	13	7	3.2	43.3	2.5	5.1	32.5	83.5	48.0	131.7	2.1	FF	(D)
3563	Air and gas compressors	-	14	10	6.9	105.3	4.1	7.7	59.2	288.4	168.3	450.1	7.9	FF	(D)
3564	Blowers and fans	-	25	10	3.2	41.8	2.0	3.9	22.6	91.3	59.7	150.0	4.4	3.2	59.8
3565	Industrial patterns	E3	48	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	5.0
3566	Speed changers, drives, and gears	E1	31	11	1.0	14.6	0.8	1.6	9.4	28.6	14.0	42.3	1.8	1.0	15.3
3567	Industrial furnaces and ovens	E1	18	7	0.4	6.0	0.3	0.5	3.3	12.1	6.5	18.7	0.4	0.5	8.2
3568	Power transmission equipment, n.e.c.	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3569	General industrial machinery, n.e.c.	-	128	44	5.1	69.4	2.8	5.4	33.9	157.7	108.6	266.4	6.4	3.1	63.6
357	Office and computing machines	-	102	48	23.3	373.5	12.7	24.5	129.8	757.5	928.7	1 661.5	75.2	FF	(D)
3573	Electronic computing equipment	-	65	34	16.7	302.8	7.5	14.5	82.9	582.0	851.6	1 407.5	68.3	19.3	371.1
3576	Scales and balances, except laboratory	-	7	4	0.8	8.1	0.6	0.9	3.3	13.7	13.2	27.8	0.4	CC	(D)
3579	Office machines, n.e.c. and typewriters	-	25	10	5.9	62.5	4.6	9.1	43.5	161.3	63.6	225.3	6.5	FF	(D)
358	Refrigeration and service machinery	-	155	41	17.1	287.2	13.5	26.6	213.9	989.0	784.1	1 760.8	34.9	19.6	694.7
3581	Automatic merchandising machines	-	12	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3582	Commercial laundry equipment	-	8	3	0.2	3.5	0.1	0.3	1.6	6.4	9.9	16.5	(D)	BB	(D)
3585	Refrigeration and heating equipment	-	69	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17.1	655.0
3589	Service industry machinery, n.e.c.	E3	64	6	0.7	8.3	0.5	0.9	4.9	20.8	17.4	38.0	(D)	1.4	25.6
359	Miscellaneous machinery, except electrical	E1	1 108	119	15.4	242.8	12.2	24.6	174.6	444.7	226.2	659.5	64.9	14.3	277.9
3592	Carburetors, pistons, rings, and valves	-	7	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3599	Machinery, except electrical, n.e.c.	E2	1 101	117	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
36	**Electric and electronic equipment**	-	**1 527**	**581**	**148.6**	**2 150.2**	**87.9**	**169.5**	**974.6**	**4 429.0**	**3 192.9**	**7 482.0**	**258.2**	**161.0**	**2 917.6**
361	Electric distributing equipment	E1	55	27	3.3	37.4	2.3	4.6	22.4	71.3	64.0	133.1	2.6	2.6	41.8
3612	Transformers	-	14	9	1.7	18.0	1.1	2.3	10.0	30.6	30.3	61.4	1.1	CC	(D)
3613	Switchgear and switchboard apparatus	E1	41	18	1.6	19.4	1.2	2.3	12.4	40.7	33.8	71.7	1.5	EE	(D)
362	Electrical industrial apparatus	-	95	47	21.5	332.0	15.4	30.0	213.1	750.4	442.2	1 167.0	35.4	21.6	445.6
3621	Motors and generators	-	30	17	11.8	189.9	9.3	17.9	137.7	426.7	251.0	669.4	17.6	12.1	251.4
3622	Industrial controls	-	38	15	3.3	48.2	1.9	3.6	21.6	92.1	61.9	149.8	3.7	3.4	68.8
3623	Welding apparatus, electric	-	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3624	Carbon and graphite products	-	9	7	2.7	42.0	2.0	4.2	30.2	125.7	59.6	174.0	8.0	EE	(D)
3629	Electrical industrial apparatus, n.e.c.	-	10	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	52.2
363	Household appliances	-	83	27	3.4	34.5	2.9	5.4	25.3	87.6	73.5	161.0	4.0	FF	(D)
3631	Household cooking equipment	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3634	Electric housewares and fans	-	29	10	2.3	21.4	2.1	3.8	16.7	60.7	47.8	108.5	2.7	3.7	64.6
3636	Sewing machines	E3	37	12	0.6	7.9	0.4	0.9	5.0	15.6	11.1	26.3	0.5	CC	(D)
364	Electric lighting and wiring equipment	-	302	114	18.7	208.1	13.9	27.0	135.6	483.6	375.2	837.6	17.6	20.3	326.4
3641	Electric lamps	-	17	2	0.6	6.5	0.6	1.0	5.0	24.2	11.1	35.0	(D)	1.0	14.5
3643	Current-carrying wiring devices	-	47	17	6.9	74.2	5.4	10.9	48.8	166.4	142.2	292.1	7.6	6.8	97.5
3644	Noncurrent-carrying wiring devices	-	16	11	4.2	54.9	2.7	5.2	37.7	125.9	59.0	181.2	4.7	4.6	81.3
3645	Residential lighting fixtures	E1	157	51	3.8	37.0	2.9	5.5	22.2	83.7	86.2	170.1	2.2	4.2	66.1
3646	Commercial lighting fixtures	E2	31	18	1.5	16.8	1.2	2.1	10.1	38.6	34.8	72.8	1.0	EE	(D)
3647	Vehicular lighting equipment	-	7	4	1.0	11.5	0.8	1.4	7.3	26.1	20.3	45.7	(D)	EE	(D)
3648	Lighting equipment, n.e.c.	E1	27	11	0.6	7.3	0.5	0.8	4.5	18.7	21.7	40.6	(D)	0.6	12.8
365	Radio and TV receiving equipment	E1	215	52	6.4	63.1	4.8	9.0	36.7	217.6	169.0	368.5	4.8	FF	(D)
3651	Radio and TV receiving sets	-	70	26	3.6	32.3	2.7	4.9	19.8	92.4	106.6	182.6	2.5	FF	(D)
3652	Phonograph records and prerecorded tape	E1	145	26	2.9	30.8	2.1	4.1	16.9	125.2	62.4	185.9	2.3	FF	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
36	**Electric and electronic equipment —Con.**													
366	Communication equipment	–	228	115	41.4	682.3	18.1	34.5	229.5	1 248.9	551.2	1 792.3	44.0	46.5	836.9
3661	Telephone and telegraph apparatus	–	26	15	3.8	55.9	2.0	3.1	18.3	72.1	55.1	143.5	4.3	FF	(D)
3662	Radio and TV communication equipment	–	202	100	37.6	626.4	16.1	31.3	211.2	1 176.8	496.0	1 648.8	39.8	FF	(D)
367	Electronic components and accessories	–	410	144	44.6	670.9	24.4	47.6	253.2	1 255.3	1 328.9	2 510.3	131.7	47.6	919.3
3671	Electron tubes, all types	–	12	6	3.0	42.7	2.1	4.2	24.8	80.0	67.7	149.8	3.0	(NA)	(NA)
3674	Semiconductors and related devices	–	59	22	12.7	231.3	3.8	7.7	41.5	422.4	333.7	721.4	(D)	13.1	269.4
3675	Electronic capacitors	–	12	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	15.8
3676	Electronic resistors	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3677	Electronic coils and transformers	–	29	23	2.6	20.8	2.0	3.6	12.2	33.1	15.1	47.2	(D)	4.4	31.8
3678	Electronic connectors	–	14	10	5.1	56.6	3.6	6.9	33.5	101.1	40.3	136.8	5.8	4.8	64.3
3679	Electronic components, n.e.c.	–	283	73	19.2	300.2	11.4	22.2	129.4	586.6	861.2	1 411.2	55.1	19.0	413.6
369	Miscellaneous electrical equipment and supplies	–	139	55	9.3	122.0	6.0	11.3	58.8	314.2	188.9	512.3	(D)	FF	(D)
3691	Storage batteries	–	8	4	0.4	3.9	0.3	0.6	3.0	8.0	12.8	21.8	0.5	0.3	3.7
3692	Primary batteries, dry and wet	E1	7	3	0.6	6.0	0.4	0.7	3.4	15.6	5.2	20.6	3.0	AA	(D)
3693	X-ray, electromedical, and electrotheraputic apparatus	–	26	17	3.0	55.2	1.3	2.5	17.7	161.0	67.5	226.8	5.0	EE	(D)
3694	Engine electrical equipment	–	23	6	3.4	39.4	2.5	4.8	23.9	86.6	64.8	163.2	(D)	4.5	84.9
3699	Electrical equipment and supplies, n.e.c.	E1	75	25	1.9	17.4	1.5	2.7	10.9	43.0	38.8	79.9	1.3	EE	(D)
37	**Transportation equipment**	–	**430**	**134**	**73.5**	**1 341.6**	**51.8**	**108.0**	**878.3**	**2 452.8**	**3 097.7**	**5 540.0**	**188.2**	**69.8**	**1 366.0**
371	Motor vehicles and equipment	–	186	59	32.9	622.3	27.6	58.0	504.0	1 099.0	2 314.4	3 409.3	(D)	33.1	766.0
3711	Motor vehicles and car bodies	–	17	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3713	Truck and bus bodies	E3	39	18	1.2	12.4	0.9	1.7	7.9	19.7	29.8	49.4	0.5	1.7	27.9
3714	Motor vehicle parts and accessories	–	125	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3715	Truck trailers	–	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts	–	72	32	30.9	578.7	17.0	36.0	283.7	1 106.2	617.6	1 725.4	(D)	27.2	468.0
3721	Aircraft	–	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3724	Aircraft engines and engine parts	–	13	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	17.1
3728	Aircraft equipment, n.e.c.	E1	55	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
373	Ship and boat building and repairing	E1	131	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3731	Ship building and repairing	E1	46	23	4.8	64.6	4.0	7.9	51.6	112.0	75.3	187.3	2.9	4.3	59.6
3732	Boat building and repairing	E1	85	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3743	Railroad equipment	–	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
376	Guided missiles, space vehicles, parts	–	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.0
3764	Space propulsion units and parts	–	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3769	Space vehicle equipment, n.e.c.	–	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
379	Miscellaneous transportation equipment	–	20	2	0.2	2.6	0.2	0.4	1.8	4.3	8.9	13.4	(D)	BB	(D)
3792	Travel trailers and campers	–	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
38	**Instruments and related products**	–	**854**	**312**	**100.6**	**1 627.6**	**56.0**	**109.6**	**752.8**	**5 424.7**	**2 119.8**	**7 525.4**	**222.6**	**96.4**	**3 535.8**
3811	Engineering and scientific instruments	E1	68	25	1.9	24.2	1.2	2.3	13.3	56.4	33.1	88.4	1.1	4.0	68.7
382	Measuring and controlling devices	–	175	86	10.8	142.1	5.8	11.7	58.1	298.2	132.1	420.8	11.5	8.7	157.3
3822	Environmental controls	–	9	5	0.5	4.7	0.4	0.8	2.9	8.3	4.9	13.0	0.3	CC	(D)
3823	Process control instruments	–	32	20	4.2	59.6	1.8	3.5	19.1	128.4	50.4	174.9	4.0	2.7	57.8
3824	Fluid meters and counting devices	E4	8	3	0.2	1.7	0.1	0.3	1.1	2.7	1.4	4.1	(Z)	BB	(D)
3825	Instruments to measure electricity	E1	61	27	3.5	48.3	1.9	4.0	20.9	103.0	49.0	148.3	4.0	3.4	65.0
3829	Measuring and controlling devices, n.e.c.	–	65	31	2.5	27.8	1.6	3.0	14.1	55.8	26.4	80.5	3.1	1.5	28.1
3832	Optical instruments and lenses	–	82	22	4.3	62.6	2.5	5.0	29.6	129.4	53.3	178.1	5.5	FF	(D)
384	Medical instruments and supplies	–	242	66	10.3	120.1	7.0	14.0	66.8	273.4	201.9	481.4	10.6	10.7	203.6
3841	Surgical and medical instruments	–	68	26	4.7	49.7	3.6	7.2	33.0	127.2	62.9	191.7	5.5	4.8	94.8
3842	Surgical appliances and supplies	E1	101	24	3.5	40.2	2.3	4.4	20.1	79.9	47.4	131.5	3.1	FF	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
38	**Instruments and related products**—Con.														
384	Medical instruments and supplies—Con.														
3843	Dental equipment and supplies	-	73	16	2.1	30.2	1.2	2.4	13.7	66.3	91.5	158.2	2.1	EE	(D)
3851	Ophthalmic goods	-	84	34	7.7	90.8	4.9	10.1	48.2	200.9	74.8	268.5	8.8	8.4	113.8
3861	Photographic equipment and supplies	-	132	49	60.8	1 129.6	31.2	59.3	504.2	4 356.2	1 472.3	5 832.6	(D)	FF	(D)
3873	Watches, clocks, and watchcases	-	71	30	4.8	58.2	3.4	7.2	32.5	110.3	152.4	255.6	(D)	5.7	96.2
39	**Miscellaneous manufacturing industries**	**E1**	**3 170**	**721**	**70.0**	**709.5**	**53.9**	**99.0**	**435.3**	**1 573.4**	**1 844.8**	**3 380.5**	**53.0**	**79.1**	**1 183.2**
391	Jewelry, silverware, and plated ware	E1	1 050	205	17.6	209.1	12.7	23.1	118.0	491.8	889.6	1 358.6	11.0	17.2	309.3
3911	Jewelry, precious metal	E1	759	171	12.9	153.5	8.9	16.1	80.9	346.0	551.0	893.2	7.4	11.6	216.7
3914	Silverware and plated ware	-	41	11	2.7	31.8	2.3	4.4	25.1	64.8	57.9	119.6	(D)	3.6	54.3
3915	Jewelers' materials and lapidary work	E1	250	23	2.0	23.9	1.5	2.6	12.0	81.0	280.7	345.8	(D)	2.0	38.2
3931	Musical instruments	E1	40	14	1.9	17.0	1.7	3.1	12.4	33.2	20.9	54.4	1.2	1.6	16.8
394	Toys and sporting goods	-	315	112	19.6	175.5	15.5	28.2	108.6	423.2	395.3	807.4	(D)	21.3	328.0
3942	Dolls	-	104	38	3.9	25.9	3.5	5.4	18.0	62.3	58.0	117.9	1.4	5.4	49.5
3944	Games, toys, and children's vehicles	-	112	43	12.6	123.2	9.4	17.9	71.5	299.1	251.9	542.7	15.0	10.9	190.6
3949	Sporting and athletic goods, n.e.c.	E1	99	31	3.1	26.3	2.6	4.9	19.1	61.8	85.4	146.7	(D)	5.0	87.9
395	Pens, pencils, office and art supplies	E1	130	37	3.4	35.6	2.4	4.7	20.6	74.1	81.1	152.3	(D)	4.0	63.6
3951	Pens and mechanical pencils	E3	31	12	0.9	7.3	0.7	1.3	5.2	17.7	14.0	31.4	0.5	CC	(D)
3952	Lead pencils and art goods	-	24	8	0.9	9.7	0.6	1.2	5.7	20.4	25.1	44.2	0.5	EE	(D)
3953	Marking devices	E1	60	7	0.7	7.6	0.5	0.9	3.8	12.9	5.9	18.5	0.2	0.8	11.1
3955	Carbon paper and inked ribbons	-	15	10	0.9	11.0	0.6	1.2	5.9	23.2	36.2	58.2	(D)	EE	(D)
396	Costume jewelry and notions	E1	437	123	9.3	80.4	7.5	13.6	51.6	162.2	142.7	304.9	4.8	11.8	150.6
3961	Costume jewelry	E1	207	52	3.6	30.7	2.9	5.2	18.9	66.2	50.7	115.2	1.9	4.9	61.9
3962	Artificial flowers	-	45	15	1.1	9.0	0.9	1.7	6.0	21.1	24.2	45.1	0.5	1.1	11.1
3963	Buttons	E1	89	22	1.6	16.6	1.3	2.3	10.0	23.2	20.2	45.4	0.5	2.3	28.8
3964	Needles, pins, and fasteners	E2	96	34	2.9	24.1	2.4	4.5	16.7	51.7	47.6	99.2	1.9	3.6	48.8
399	Miscellaneous manufactures	E1	1 198	230	18.2	191.9	14.2	26.2	124.1	388.9	315.1	702.8	14.3	23.2	314.9
3991	Brooms and brushes	E1	44	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3993	Signs and advertising displays	E2	395	85	6.1	68.4	4.7	8.9	42.8	123.7	85.1	208.7	5.0	6.9	104.7
3995	Burial caskets	-	25	6	0.5	5.6	0.4	0.7	3.4	9.8	12.0	21.7	0.5	CC	(D)
3996	Hard surface floor coverings	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	E2	732	120	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.8	165.9
--	**Administrative and auxiliary**	-	**1 020**	**581**	**126.1**	**2 787.3**	-	-	-	-	-	-	-	**(NA)**	**(NA)**

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York-Newark-Jersey City, N.Y.-N.J.-Conn., SCSA	-	**41 325**	**13 366**	**1 502.0**	**20 379.2**	**919.2**	**1 747.6**	**9 319.5**	**40 638.1**	**44 236.4**	**84 486.0**	**1 949.6**	**1 694.5**	**29 668.0**
20	Food and kindred products	-	1 462	504	64.5	916.6	44.2	88.4	555.6	2 916.9	5 304.8	8 229.1	(D)	86.7	2 427.6
275	Commercial printing	E2	3 387	475	40.6	575.5	30.8	57.2	391.7	1 073.9	757.7	1 828.8	(D)	(NA)	(NA)
28	Chemicals and allied products	-	1 494	597	102.9	1 622.1	59.9	119.2	770.7	7 056.1	5 326.2	12 313.1	468.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	1 285	545	47.4	516.6	37.2	73.8	337.4	1 163.5	1 238.9	2 381.6	90.5	48.0	763.8
347	Metal services, n.e.c.	E1	543	129	8.5	84.4	7.0	13.7	57.3	155.8	114.0	266.8	(D)	(NA)	(NA)
	Albany-Schenectady-Troy SMSA	-	**766**	**274**	**61.3**	**909.2**	**37.0**	**74.0**	**454.3**	**1 859.7**	**1 806.0**	**3 612.7**	**151.2**	**66.9**	**1 322.0**
20	Food and kindred products	-	89	39	5.6	69.7	3.7	7.9	41.3	147.8	325.5	471.9	13.8	5.7	164.0
201	Meat products	E1	16	7	1.3	18.7	1.0	1.9	12.0	34.8	104.9	137.8	0.7	1.3	28.0
202	Dairy products	-	16	9	0.5	5.7	0.2	0.5	2.1	12.6	43.8	56.2	1.2	0.6	8.3
2026	Fluid milk	E1	10	5	0.3	3.6	0.1	0.3	1.4	6.6	30.5	37.1	(D)	0.5	6.8
205	Bakery products	-	25	8	1.2	15.1	0.6	1.6	7.5	24.2	33.0	57.2	(D)	1.2	24.9
22	Textile mill products	-	30	17	2.4	26.9	1.7	3.3	15.1	50.6	50.7	100.7	2.8	3.9	56.6
225	Knitting mills	-	15	10	1.1	8.7	0.9	1.7	6.4	14.2	27.7	42.0	(D)	2.1	30.3
229	Miscellaneous textile goods	-	9	5	0.9	12.2	0.6	1.1	6.2	29.8	20.0	49.1	(D)	(NA)	(NA)
23	Apparel and other textile products	-	52	28	3.3	23.4	2.8	4.8	18.3	43.2	42.4	85.6	0.6	(NA)	(NA)
233	Women's and misses' outerwear	E3	18	12	1.0	6.7	0.9	1.2	5.4	9.2	4.5	13.6	0.2	(NA)	(NA)
2335	Women's and misses' dresses	E4	12	7	0.4	2.6	0.4	0.6	2.1	4.0	2.0	5.9	0.1	(NA)	(NA)
238	Miscellaneous apparel and accessories	-	3	3	0.3	2.1	0.3	0.5	1.6	5.8	1.2	7.0	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	-	14	4	0.8	6.4	0.6	1.2	4.1	13.1	21.8	34.4	0.3	0.7	7.7
24	Lumber and wood products	E1	38	8	0.6	5.4	0.5	0.9	4.1	8.9	13.4	22.4	(D)	(NA)	(NA)
26	Paper and allied products	-	32	22	3.3	48.9	2.7	5.6	37.7	112.6	149.7	261.2	7.2	3.3	62.6
2621	Paper mills, except building paper	-	7	6	1.6	26.5	1.3	2.8	21.0	58.4	73.7	131.2	(D)	1.8	37.7
264	Miscellaneous converted paper products	-	9	6	0.6	7.6	0.5	1.0	6.0	21.8	32.6	53.8	(D)	(NA)	(NA)
265	Paperboard containers and boxes	-	10	6	0.7	9.3	0.5	1.1	6.3	23.0	31.9	54.6	(D)	1.0	17.6
27	Printing and publishing	-	151	22	4.1	53.5	1.8	3.2	21.4	116.9	41.5	157.4	3.1	4.6	77.4
273	Books	-	10	5	1.2	19.4	0.3	0.6	3.8	50.1	16.4	65.9	1.1	0.9	22.8
28	Chemicals and allied products	-	31	12	4.9	83.2	2.8	6.2	38.8	303.6	249.5	547.2	54.8	4.1	161.7
2851	Paints and allied products	-	7	5	0.9	15.5	0.5	1.4	7.3	41.0	60.6	100.5	(D)	0.8	22.1
30	Rubber and miscellaneous plastics products	-	26	13	1.4	14.2	1.1	2.0	8.6	33.1	26.2	60.1	4.7	0.7	11.9
32	Stone, clay, and glass products	-	43	9	2.8	44.3	2.0	4.0	30.4	87.5	80.3	176.2	4.7	5.0	105.6
329	Miscellaneous nonmetallic mineral products	-	6	3	2.0	30.6	1.5	2.9	21.1	60.4	51.4	119.9	(D)	(NA)	(NA)
33	Primary metal industries	-	11	8	2.9	48.8	2.3	4.6	36.7	83.7	115.9	201.4	(D)	2.4	45.3
34	Fabricated metal products	-	58	16	1.3	15.2	1.0	1.9	9.9	30.2	35.1	65.5	0.8	1.9	28.9
344	Fabricated structural metal products	E1	26	7	0.6	7.2	0.4	0.8	4.6	11.9	18.7	30.9	0.4	0.6	9.8
3441	Fabricated structural metal	-	9	4	0.3	3.9	0.2	0.4	2.4	6.6	6.8	14.0	0.3	0.3	4.4
354	Metalworking machinery	E3	12	7	0.4	4.3	0.3	0.5	2.9	7.6	4.1	11.7	(D)	0.3	1.0
356	General industrial machinery	-	5	3	0.3	4.1	0.2	0.3	1.8	7.6	7.2	14.7	(D)	0.4	5.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Albany-Schenectady-Troy SMSA—Con.														
359	Miscellaneous machinery, except electrical	E1	27	4	0.3	3.4	0.2	0.4	2.2	6.0	2.9	8.8	(D)	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E1	27	4	0.3	3.4	0.2	0.4	2.2	6.0	2.9	8.8	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	18	8	5.1	73.8	3.7	7.1	48.3	151.2	96.0	244.2	(D)	(NA)	(NA)
38	Instruments and related products	-	21	8	0.8	8.1	0.4	0.9	4.2	19.6	9.0	28.2	0.5	0.7	10.2
382	Measuring and controlling devices	-	6	3	0.4	3.8	0.2	0.4	1.9	7.5	3.6	10.9	(D)	0.3	4.3
39	Miscellaneous manufacturing industries	-	31	11	1.6	13.2	1.3	2.5	8.8	32.6	41.0	72.0	(D)	2.1	26.7
394	Toys and sporting goods	-	11	9	1.4	11.2	1.2	2.2	7.5	28.5	37.9	64.8	(D)	1.0	19.7
	Binghamton, N.Y.-Pa., SMSA	-	**389**	**146**	**39.6**	**578.1**	**22.3**	**42.9**	**236.3**	**1 081.2**	**1 244.8**	**2 273.4**	**(D)**	**36.4**	**673.5**
20	Food and kindred products	-	34	13	1.1	12.2	0.8	1.5	7.4	41.4	89.8	131.8	2.2	1.0	17.5
23	Apparel and other textile products	-	23	14	1.0	7.1	0.9	1.6	5.9	11.3	13.2	23.8	0.3	1.3	9.0
233	Women's and misses' outerwear	-	11	9	0.6	3.4	0.5	0.9	3.0	4.6	2.0	6.5	(D)	0.8	4.2
239	Miscellaneous fabricated textile products	-	7	3	0.4	2.7	0.3	0.6	2.2	5.4	10.4	15.2	(D)	0.3	3.7
24	Lumber and wood products	-	44	6	0.6	5.7	0.5	0.9	4.3	8.2	13.5	21.8	0.5	0.6	7.9
25	Furniture and fixtures	E2	10	6	1.2	11.3	1.0	1.8	8.6	19.8	20.6	40.0	0.3	1.1	15.7
30	Rubber and miscellaneous plastics products	-	20	12	1.1	8.6	0.9	1.7	6.9	28.8	28.2	56.4	2.1	(NA)	(NA)
33	Primary metal industries	-	5	4	0.4	5.1	0.4	0.8	3.9	8.6	5.1	13.5	0.6	0.5	5.7
34	Fabricated metal products	-	24	12	1.7	21.6	1.3	2.6	14.9	41.7	26.2	66.7	2.0	1.4	20.8
344	Fabricated structural metal products	E2	10	4	0.3	4.6	0.2	0.5	3.4	7.6	8.5	16.1	0.4	(NA)	(NA)
346	Metal forgings and stampings	E2	4	4	0.5	5.8	0.4	0.7	4.2	10.5	7.1	17.2	0.6	0.4	5.1
35	Machinery, except electrical	-	51	16	3.8	35.9	3.1	6.0	25.4	59.9	44.8	103.8	3.8	2.0	27.3
357	Office and computing machines	E3	4	3	1.5	11.0	1.3	2.7	7.9	16.3	7.6	23.7	0.7	1.0	10.5
3573	Electronic computing equipment	E3	4	3	1.5	11.0	1.3	2.7	7.9	16.3	7.6	23.7	0.7	1.0	10.5
359	Miscellaneous machinery, except electrical	-	22	6	0.5	5.1	0.5	0.8	3.5	10.0	3.6	13.7	0.6	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	-	22	6	0.5	5.1	0.5	0.8	3.5	10.0	3.6	13.7	0.6	(NA)	(NA)
38	Instruments and related products	-	13	6	4.4	64.7	2.4	5.1	31.2	110.4	99.3	217.6	(D)	(NA)	(NA)
--	Administrative and auxiliary	-	11	9	0.7	8.9	-	-	-	-	-	-	-	(NA)	(NA)
	Buffalo SMSA	-	**1 711**	**628**	**140.3**	**2 296.1**	**102.1**	**203.4**	**1 555.5**	**4 735.5**	**5 629.7**	**10 345.8**	**451.7**	**151.7**	**3 146.3**
20	Food and kindred products	-	173	67	8.8	115.2	6.1	12.5	74.6	446.9	657.3	1 102.5	(D)	10.8	272.8
201	Meat products	E2	25	9	0.8	10.1	0.5	1.1	6.2	17.1	64.6	81.7	0.6	1.2	21.2
2013	Sausages and other prepared meats	E1	16	8	0.7	8.9	0.5	0.9	5.4	17.0	47.2	64.0	0.5	0.8	10.8
202	Dairy products	-	33	8	0.9	11.6	0.4	0.9	4.6	31.5	124.7	155.4	2.4	1.0	17.5
2026	Fluid milk	-	20	5	0.6	7.9	0.2	0.5	3.0	23.0	92.3	115.2	(D)	0.6	10.9
203	Preserved fruits and vegetables	-	16	10	1.8	20.5	1.2	2.5	11.2	121.7	93.7	215.3	1.8	1.9	49.7
2033	Canned fruits and vegetables	E2	8	3	0.3	3.0	0.2	0.4	1.8	9.2	15.0	24.0	0.8	0.3	3.1
204	Grain mill products	-	18	13	2.9	47.9	2.4	5.2	38.4	214.9	297.4	510.7	5.4	2.9	123.6
205	Bakery products	-	29	10	1.2	12.4	0.8	1.4	7.1	28.0	21.5	49.4	2.6	2.5	35.4
208	Beverages	E1	21	9	0.6	7.1	0.3	0.6	3.8	17.2	29.1	47.2	1.3	0.6	13.5
209	Miscellaneous foods and kindred products	E1	18	4	0.4	3.6	0.2	0.5	1.8	11.3	17.6	29.0	(D)	0.4	7.2

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Buffalo SMSA—Con.													
22	Textile mill products	-	10	7	0.7	6.7	0.5	1.0	4.4	13.7	10.6	24.7	0.1	0.9	13.2
23	Apparel and other textile products	-	44	11	2.7	26.4	2.3	4.3	21.1	47.7	40.8	87.5	1.9	2.2	19.3
24	Lumber and wood products	E2	53	11	0.7	6.9	0.6	1.0	4.5	11.4	14.3	25.7	0.6	1.0	12.0
244	Wood containers	E1	15	4	0.3	2.4	0.2	0.4	1.7	4.1	4.7	8.7	0.2	(NA)	(NA)
25	Furniture and fixtures	-	32	10	0.8	8.3	0.6	1.1	5.8	15.9	8.6	24.2	0.4	1.0	14.4
251	Household furniture	-	12	7	0.6	6.7	0.5	0.9	4.7	13.0	6.7	19.4	0.2	0.6	9.2
26	Paper and allied products	-	54	39	4.5	55.8	3.4	6.9	38.1	89.3	141.3	232.0	8.6	5.1	86.7
265	Paperboard containers and boxes	-	30	21	2.3	29.3	1.8	3.3	19.7	50.2	59.4	109.6	3.1	2.2	38.8
2651	Folding paperboard boxes	-	12	6	0.9	12.5	0.7	1.3	8.3	21.5	19.4	40.8	2.1	0.7	16.7
2652	Setup paperboard boxes	-	6	5	0.3	2.9	0.3	0.5	2.2	3.4	2.9	6.6	(D)	0.4	5.0
2653	Corrugated and solid fiber boxes	-	8	8	0.8	11.2	0.6	1.1	7.0	19.3	29.1	48.3	0.8	0.8	13.9
2711	Newspapers	-	29	8	2.5	37.7	1.0	1.9	16.6	75.8	24.4	100.2	0.5	2.8	49.4
28	Chemicals and allied products	-	93	46	8.4	131.2	5.3	10.2	73.7	419.2	373.6	798.0	83.3	10.5	265.2
281	Industrial inorganic chemicals	-	18	11	1.8	33.0	1.3	2.6	20.9	141.5	95.6	237.0	19.1	1.6	69.2
2819	Industrial inorganic chemicals, n.e.c.	-	12	9	1.7	30.9	1.2	2.5	19.7	128.1	89.7	218.0	(D)	(NA)	(NA)
282	Plastics materials and synthetics	-	7	6	1.2	19.4	0.9	1.8	11.5	32.9	48.7	81.1	(D)	(NA)	(NA)
286	Industrial organic chemicals	-	9	8	2.6	40.9	1.6	3.0	24.9	134.9	105.4	242.6	(D)	5.6	107.2
2869	Industrial organic chemicals, n.e.c.	-	6	6	0.8	11.4	0.4	0.8	5.6	28.2	55.6	84.6	4.5	(NA)	(NA)
289	Miscellaneous chemical products	-	23	6	0.5	7.6	0.3	0.6	3.9	22.7	24.7	47.6	(D)	0.5	11.9
30	Rubber and miscellaneous plastics products	-	70	37	5.3	70.0	4.0	8.0	46.7	150.2	168.1	331.2	8.9	6.5	116.8
32	Stone, clay, and glass products	-	86	29	5.6	79.9	4.3	8.4	57.1	187.5	175.8	358.2	12.0	5.4	111.7
327	Concrete, gypsum, and plaster products	-	41	11	0.7	12.3	0.6	1.2	8.9	19.4	29.4	48.7	2.3	1.1	20.0
3273	Ready-mixed concrete	-	16	6	0.4	6.1	0.3	0.5	4.5	9.3	16.9	26.2	1.0	0.4	7.3
329	Miscellaneous nonmetallic mineral products	-	24	12	3.8	55.8	2.9	5.5	39.5	139.9	131.3	267.1	7.9	3.6	83.1
3291	Abrasive products	-	10	6	2.7	40.2	2.2	4.2	29.9	100.4	102.5	198.8	(D)	2.9	72.4
33	Primary metal industries	-	57	36	20.2	380.9	15.7	29.2	283.5	463.1	1 164.1	1 652.1	68.3	22.2	425.1
331	Blast furnace and basic steel products	-	16	14	16.0	305.2	12.3	22.5	225.2	341.9	950.5	1 313.1	63.6	15.1	288.5
332	Iron and steel foundries	-	11	10	2.5	39.6	2.1	4.2	33.4	64.5	70.6	133.2	(D)	2.7	43.0
336	Nonferrous foundries	-	9	3	0.3	3.8	0.2	0.4	2.5	6.4	4.5	10.9	0.2	0.3	3.5
34	Fabricated metal products	-	211	78	12.8	220.7	10.5	21.9	170.7	425.8	359.7	779.2	(D)	14.3	296.3
342	Cutlery, hand tools, and hardware	-	15	9	2.0	24.8	1.6	3.1	17.2	49.1	30.1	77.2	(D)	2.0	26.1
3425	Hand saws and saw blades	-	4	3	0.3	2.7	0.2	0.5	1.7	5.4	2.9	8.1	0.1	(NA)	(NA)
344	Fabricated structural metal products	-	74	28	2.5	35.8	1.8	3.5	23.1	70.8	60.5	131.5	3.1	2.0	34.2
3441	Fabricated structural metal	-	15	10	0.7	10.3	0.5	1.1	7.0	15.8	15.6	30.6	0.9	0.5	8.0
3443	Fabricated plate work (boiler shops)	-	24	12	1.1	17.2	0.7	1.5	10.6	41.3	27.9	70.1	1.6	1.1	19.4
3444	Sheet metal work	-	21	3	0.4	5.7	0.3	0.6	3.9	10.1	11.8	21.8	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	44	14	1.4	16.3	1.1	2.2	11.9	34.4	24.9	58.8	(D)	2.5	52.6
3496	Miscellaneous fabricated wire products	-	12	4	0.5	6.5	0.5	0.9	5.4	17.3	8.9	25.5	0.2	0.8	18.6
3499	Fabricated metal products, n.e.c.	E1	23	6	0.4	5.4	0.4	0.7	3.4	8.6	7.7	16.5	0.3	0.3	4.3
35	Machinery, except electrical	-	288	86	21.7	365.9	15.3	31.2	245.0	1 100.8	618.9	1 704.0	38.3	20.0	622.7

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Buffalo SMSA—Con.													
35	Machinery, except electrical —Con.													
353	Construction and related machinery	E1	14	6	0.3	4.0	0.2	0.4	2.3	7.2	7.4	14.6	0.5	0.4	7.5
3544	Special dies, tools, jigs, and fixtures	E1	45	15	0.9	12.5	0.7	1.4	8.5	23.0	7.5	30.0	0.7	(NA)	(NA)
355	Special industry machinery	-	25	12	3.2	53.6	1.5	3.0	21.6	120.4	45.8	166.9	3.5	2.3	35.1
3551	Food products machinery	-	9	4	0.5	6.9	0.3	0.6	3.6	15.3	9.0	24.2	0.4	0.7	12.9
356	General industrial machinery	-	47	19	4.4	63.5	2.5	5.1	34.9	143.8	86.8	224.2	(D)	4.1	75.3
3566	Speed changers, drives, and gears	-	5	3	0.5	7.8	0.4	0.8	5.1	16.9	8.0	24.7	0.7	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	109	18	1.4	18.9	1.1	2.2	13.0	30.2	12.6	43.8	2.4	1.6	21.6
36	Electric and electronic equipment	-	69	26	9.2	133.4	6.5	12.3	81.5	329.7	178.2	494.1	16.7	10.6	204.1
367	Electronic components and accessories	E2	12	4	0.6	5.0	0.4	0.7	2.6	10.6	5.2	14.8	0.3	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	-	8	5	0.7	8.3	0.5	0.9	4.6	28.9	13.4	42.1	(D)	0.5	5.7
37	Transportation equipment	-	42	18	20.5	414.4	16.8	36.2	326.0	622.0	983.4	1 592.3	(D)	(NA)	(NA)
38	Instruments and related products	-	43	17	2.8	38.3	1.8	3.7	21.8	87.8	58.1	142.7	3.5	2.5	45.5
384	Medical instruments and supplies	-	23	10	1.3	16.2	0.8	1.5	8.6	32.7	34.9	67.3	(D)	1.0	17.6
--	Administrative and auxiliary	-	53	30	3.4	73.4	-	-	-	-	-	-	-	(NA)	(NA)
	Elmira SMSA	-	**119**	**55**	**12.8**	**166.3**	**9.0**	**17.8**	**105.9**	**331.5**	**313.3**	**636.1**	**(D)**	**13.9**	**216.7**
20	Food and kindred products	-	19	9	2.5	29.9	2.0	4.0	23.0	65.8	139.2	203.3	(D)	2.3	33.1
27	Printing and publishing	-	14	5	0.6	6.2	0.3	0.6	3.5	15.0	6.8	21.9	(D)	0.8	11.3
34	Fabricated metal products	-	18	7	1.4	18.7	1.0	2.1	11.9	46.1	18.9	56.8	(D)	1.7	25.3
35	Machinery, except electrical	-	17	7	1.4	20.1	1.1	2.1	13.7	49.1	20.2	67.7	(D)	1.0	24.2
37	Transportation equipment	-	5	4	1.8	20.3	1.2	2.5	12.7	40.9	47.7	88.2	(D)	2.7	31.9
--	Administrative and auxiliary	-	6	5	0.8	11.5	-	-	-	-	-	-	-	(NA)	(NA)
	Nassau-Suffolk SMSA	-	**4 827**	**1 268**	**155.9**	**2 099.0**	**101.6**	**196.8**	**1 099.6**	**4 370.3**	**3 380.6**	**7 729.7**	**196.7**	**150.2**	**2 523.2**
20	Food and kindred products	E1	151	32	4.0	51.9	2.8	5.3	28.6	138.0	167.8	305.8	3.3	4.2	87.6
202	Dairy products	E2	22	4	0.3	4.0	0.2	0.4	2.4	7.9	28.1	36.0	0.5	0.3	7.2
206	Sugar and confectionery products	E2	13	3	0.3	2.3	0.2	0.4	1.5	5.5	4.7	10.1	0.2	0.3	3.5
2065	Confectionery products	E2	13	3	0.3	2.3	0.2	0.4	1.5	5.5	4.7	10.1	0.2	0.3	3.5
208	Beverages	E2	15	7	0.5	8.2	0.3	0.5	3.4	28.9	35.5	64.3	1.0	0.7	24.2
209	Miscellaneous foods and kindred products	E1	30	7	0.5	4.9	0.4	0.8	3.3	12.2	16.0	28.8	0.4	0.7	17.4
22	Textile mill products	E2	119	44	3.8	39.3	3.3	6.3	28.0	69.1	104.7	172.7	4.6	4.4	83.4
2253	Knit outerwear mills	E2	36	20	1.6	15.5	1.3	2.6	11.6	26.2	43.8	70.4	(D)	(NA)	(NA)
2257	Circular knit fabric mills	E2	32	13	1.2	12.8	1.0	1.9	7.9	22.2	31.9	53.8	(D)	1.8	47.6
23	Apparel and other textile products	E1	364	154	9.2	68.8	8.1	13.7	52.5	133.2	147.1	280.2	3.5	10.1	102.5
232	Men's and boys' furnishings	E1	28	11	0.8	6.6	0.7	1.3	5.0	12.9	23.0	35.8	0.1	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c.	-	11	6	0.4	4.1	0.4	0.8	3.0	8.9	18.0	26.7	(Z)	(NA)	(NA)
236	Children's outerwear	E1	14	9	0.5	3.0	0.4	0.7	2.3	8.4	17.0	25.5	0.1	0.5	2.4
2369	Children's outerwear, n.e.c.	-	8	6	0.3	2.3	0.3	0.5	1.8	7.4	16.0	23.5	0.1	(NA)	(NA)
238	Miscellaneous apparel and accessories	E1	14	7	0.6	4.3	0.5	0.9	3.4	10.0	7.6	17.4	(D)	0.7	7.6
239	Miscellaneous fabricated textile products	E1	92	21	1.3	10.9	1.1	1.9	7.8	22.0	21.4	43.2	1.0	1.0	13.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Nassau-Suffolk SMSA—Con.													
25	Furniture and fixtures	E2	142	30	2.4	24.2	1.9	3.7	16.2	48.3	37.4	85.7	2.9	2.6	36.5
251	Household furniture	E3	65	12	0.9	7.4	0.7	1.4	5.2	15.3	12.2	27.4	0.5	1.1	12.5
2511	Wood household furniture	E5	38	4	0.3	2.6	0.3	0.5	1.9	5.0	4.5	9.5	(D)	0.3	3.0
2514	Metal household furniture	E2	14	5	0.3	3.0	0.3	0.5	2.2	6.0	3.8	9.9	(D)	0.5	5.0
254	Partitions and fixtures	E1	43	10	0.9	9.6	0.7	1.4	6.2	18.5	14.4	32.6	(D)	0.6	9.7
2541	Wood partitions and fixtures	E2	29	3	0.3	3.4	0.3	0.6	2.4	6.3	4.9	11.0	(D)	(NA)	(NA)
2542	Metal partitions and fixtures	–	14	7	0.5	6.2	0.4	0.8	3.8	12.2	9.5	21.6	(D)	(NA)	(NA)
259	Miscellaneous furniture and fixtures	E1	19	6	0.5	5.2	0.4	0.7	3.3	9.6	8.2	18.1	0.8	(NA)	(NA)
26	Paper and allied products	E2	103	47	5.0	56.6	4.0	7.5	37.7	119.6	147.8	265.4	6.9	4.1	64.1
264	Miscellaneous converted paper products	E3	70	30	3.1	32.0	2.4	4.6	20.8	73.4	89.4	161.8	5.3	2.4	35.5
2643	Bags, except textile bags	E4	20	12	1.4	13.4	1.1	2.2	8.8	33.8	42.5	77.0	2.6	1.0	16.8
2649	Converted paper products, n.e.c.	E1	22	8	0.6	6.8	0.5	1.0	4.6	15.5	19.3	34.3	1.0	0.3	5.2
265	Paperboard containers and boxes	–	33	17	2.0	24.7	1.6	2.9	16.9	46.3	58.3	103.6	1.6	(NA)	(NA)
2651	Folding paperboard boxes	–	14	8	1.2	14.3	1.0	1.7	9.9	28.8	30.2	58.3	0.5	0.7	12.5
2653	Corrugated and solid fiber boxes	–	14	7	0.7	9.5	0.5	1.0	6.3	15.3	23.0	38.0	1.0	0.7	11.2
27	Printing and publishing	E1	809	128	12.1	164.8	7.3	13.8	85.0	364.0	207.6	569.8	30.0	10.5	215.3
2711	Newspapers	–	74	14	2.4	40.3	0.8	1.3	10.3	95.0	34.5	129.4	(D)	2.4	56.2
273	Books	E2	72	18	1.2	14.4	0.6	1.1	5.8	38.2	25.9	62.7	1.4	1.0	27.1
2741	Miscellaneous publishing	–	50	10	0.9	10.4	0.5	0.9	3.8	26.9	13.2	39.2	(D)	0.7	18.8
275	Commercial printing	E2	446	50	5.0	66.9	3.8	7.2	46.7	130.8	90.9	222.5	8.6	4.4	71.0
2751	Commercial printing, letterpress	E2	239	21	1.9	21.7	1.4	2.5	13.9	39.6	30.3	69.7	1.6	1.7	28.5
2752	Commercial printing, lithographic	E1	192	27	3.0	43.7	2.4	4.5	31.7	87.9	59.2	148.0	7.0	2.5	39.9
2761	Manifold business forms	E1	13	8	0.5	7.5	0.4	0.7	5.4	15.0	14.6	29.5	0.8	0.3	5.6
278	Blankbooks and bookbinding	E1	36	8	0.7	6.6	0.6	1.2	4.5	12.2	7.6	19.7	1.1	0.7	13.9
2782	Blankbooks and looseleaf binders	–	15	7	0.5	4.7	0.4	0.9	3.0	8.4	7.0	15.3	1.0	0.6	12.0
28	Chemicals and allied products	–	141	48	6.1	71.0	3.8	7.0	33.6	395.1	299.5	687.4	12.9	5.1	136.7
283	Drugs	–	36	16	2.1	27.7	0.9	1.7	8.9	83.2	56.7	139.3	(D)	1.7	51.4
2834	Pharmaceutical preparations	–	27	10	1.7	22.8	0.7	1.3	7.0	65.9	45.8	111.7	(D)	1.5	45.9
284	Soaps, cleaners, and toilet goods	–	46	14	3.0	27.8	2.3	4.1	18.3	261.8	115.5	372.1	(D)	2.4	59.9
289	Miscellaneous chemical products	E1	30	9	0.5	7.4	0.3	0.5	3.0	29.4	88.4	116.8	(D)	0.5	15.1
29	Petroleum and coal products	E3	23	3	0.4	5.6	0.3	0.6	3.6	8.7	26.1	35.0	0.9	0.3	12.9
295	Paving and roofing materials	E3	16	3	0.3	4.8	0.2	0.5	3.2	7.0	21.9	29.1	0.8	0.3	12.1
30	Rubber and miscellaneous plastics products	E2	202	67	5.3	54.2	4.2	8.1	35.3	119.6	134.1	252.8	8.2	4.6	69.8
3079	Miscellaneous plastics products	E2	187	65	5.1	52.6	4.1	7.8	34.2	116.2	131.0	246.4	8.0	4.5	67.8
31	Leather and leather products	E5	18	8	0.6	4.1	0.5	0.9	2.8	7.6	6.5	14.1	0.1	0.3	3.2
314	Footwear, except rubber	E2	3	3	0.3	1.9	0.2	0.5	1.4	3.0	2.2	5.2	(D)	(NA)	(NA)
3272	Concrete products, n.e.c.	E1	27	7	0.5	6.8	0.4	0.8	4.5	14.3	9.4	22.9	(D)	0.5	11.8
33	Primary metal industries	E1	70	23	2.0	25.0	1.6	3.2	15.7	52.0	94.9	146.1	(D)	1.6	29.5
335	Nonferrous rolling and drawing	–	17	10	1.0	12.4	0.8	1.6	7.1	28.5	72.4	100.1	1.3	0.7	14.6
3357	Nonferrous wire drawing and insulating	–	8	6	0.3	3.0	0.2	0.4	1.9	7.6	23.6	31.8	0.7	(NA)	(NA)
336	Nonferrous foundries	E1	26	10	0.6	7.9	0.5	1.0	5.1	14.5	10.5	25.0	(D)	0.6	9.5

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Nassau-Suffolk SMSA—Con.														
33	Primary metal industries—Con.														
339	Miscellaneous primary metal products	E8	16	3	0.3	3.7	0.3	0.5	2.8	6.9	7.4	14.3	0.5	(NA)	(NA)
34	Fabricated metal products	E1	511	136	12.4	148.4	9.7	19.2	98.5	299.0	297.2	591.6	23.3	13.1	209.4
342	Cutlery, hand tools, and hardware	–	35	12	1.4	15.3	1.2	2.3	10.0	38.1	38.7	74.4	1.4	1.1	15.6
3429	Hardware, n.e.c.	E1	21	6	0.5	5.8	0.4	0.7	3.4	11.8	11.2	22.4	0.5	(NA)	(NA)
343	Plumbing and heating, except electric	–	15	8	1.3	14.7	1.0	1.9	8.9	34.6	40.1	72.0	3.1	1.2	20.7
3432	Plumbing fittings and brass goods	E1	4	3	0.5	5.1	0.4	0.8	3.4	11.3	20.1	29.8	(D)	(NA)	(NA)
3433	Heating equipment, except electric	–	11	5	0.8	9.6	0.6	1.1	5.5	23.3	20.0	42.3	(D)	0.8	13.3
344	Fabricated structural metal products	E1	188	51	4.1	51.8	3.1	6.1	34.4	94.5	105.5	201.2	4.4	4.6	72.7
3441	Fabricated structural metal	E2	29	6	0.4	5.7	0.3	0.7	3.8	9.3	11.2	22.6	0.5	0.5	9.7
3442	Metal doors, sash, and trim	–	44	22	1.5	17.1	1.1	2.3	10.5	33.0	36.8	71.2	1.3	2.0	29.2
3443	Fabricated plate work (boiler shops)	E2	18	3	0.4	5.1	0.3	0.7	4.0	9.7	9.8	19.3	(D)	(NA)	(NA)
3444	Sheet metal work	E2	66	17	1.4	19.4	1.1	2.0	13.6	33.7	22.4	55.9	1.0	1.4	24.1
345	Screw machine products, bolts, etc.	E1	43	11	1.3	15.2	1.0	2.1	11.0	23.3	30.0	52.3	3.4	1.5	25.7
3451	Screw machine products	E1	28	6	0.4	5.2	0.3	0.7	3.4	10.7	12.9	23.1	1.0	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers	E1	15	5	0.8	9.9	0.7	1.5	7.5	12.6	17.1	29.2	2.4	(NA)	(NA)
346	Metal forgings and stampings	E1	65	16	1.2	15.5	1.0	1.9	10.4	28.2	21.4	49.2	1.3	1.7	29.0
347	Metal services, n.e.c.	E1	59	11	0.7	7.9	0.6	1.4	5.9	15.0	8.3	22.7	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	E1	93	23	1.7	20.9	1.3	2.4	12.1	51.2	44.9	96.5	4.8	1.4	24.6
3494	Valves and pipe fittings	–	11	5	0.5	7.4	0.4	0.7	3.7	23.5	19.9	44.7	(D)	0.4	9.5
3499	Fabricated metal products, n.e.c.	E1	61	12	0.8	10.1	0.7	1.3	6.4	21.1	17.3	37.7	1.0	0.7	10.4
35	Machinery, except electrical	E1	714	111	10.5	139.7	6.9	13.7	76.1	296.3	196.7	487.7	14.9	9.1	163.0
354	Metalworking machinery	E1	129	17	1.8	26.0	1.2	2.5	14.7	57.0	36.8	91.1	2.8	1.6	30.1
3544	Special dies, tools, jigs, and fixtures	E3	84	6	0.5	7.6	0.5	0.9	5.7	11.9	4.8	16.5	1.1	0.5	9.2
3545	Machine tool accessories	–	21	5	0.7	9.6	0.5	0.9	5.4	23.7	10.6	32.9	1.0	(NA)	(NA)
355	Special industry machinery	E1	68	18	1.2	16.8	0.7	1.4	8.5	33.8	26.0	59.3	(D)	1.1	20.8
3555	Printing trades machinery	–	21	5	0.5	5.6	0.3	0.5	2.7	12.1	8.3	20.3	(D)	(NA)	(NA)
3559	Special industry machinery, n.e.c.	E2	28	5	0.5	6.1	0.3	0.6	3.4	11.6	9.7	20.5	0.2	0.4	6.7
356	General industrial machinery	–	57	17	1.4	17.6	0.9	1.7	9.8	46.6	29.0	76.0	2.2	1.4	30.4
3569	General industrial machinery, n.e.c.	–	27	7	0.5	7.0	0.3	0.6	3.7	15.1	9.2	24.2	0.7	0.4	7.6
357	Office and computing machines	–	32	16	2.5	33.2	1.2	2.5	12.1	72.8	48.3	120.0	4.3	1.9	31.3
3573	Electronic computing equipment	–	26	14	1.9	26.7	1.1	2.3	11.4	58.7	42.3	98.9	2.5	(NA)	(NA)
358	Refrigeration and service machinery	E4	27	3	0.3	2.9	0.2	0.3	1.8	5.9	6.4	12.3	(D)	0.5	9.6
359	Miscellaneous machinery, except electrical	E3	372	34	3.0	38.6	2.4	4.8	26.7	69.8	37.1	106.0	4.2	2.3	36.2
36	Electric and electronic equipment	–	441	178	30.8	401.3	19.6	37.9	213.4	808.5	490.3	1 309.6	34.8	30.3	543.3
361	Electric distributing equipment	E5	11	5	0.3	4.1	0.2	0.5	2.3	8.0	5.8	13.7	0.2	(NA)	(NA)
3613	Switchgear and switchboard apparatus	E5	11	5	0.3	4.1	0.2	0.5	2.3	8.0	5.8	13.7	0.2	(NA)	(NA)
362	Electrical industrial apparatus	–	24	10	1.7	17.8	1.3	2.6	11.5	44.1	22.0	64.3	3.7	1.3	21.3
363	Household appliances	–	13	4	0.5	4.1	0.4	0.8	2.9	10.8	10.6	20.9	0.7	(NA)	(NA)
364	Electric lighting and wiring equipment	–	67	22	2.7	27.7	2.0	3.6	15.6	71.3	77.2	146.1	4.0	2.3	44.4
3645	Residential lighting fixtures	–	37	13	1.2	11.6	0.9	1.6	6.2	29.0	32.5	60.4	1.1	0.9	14.0
365	Radio and TV receiving equipment	E1	34	17	1.9	18.3	1.3	2.4	9.6	38.4	42.2	80.9	1.6	(NA)	(NA)
366	Communication equipment	–	106	59	15.5	234.9	8.7	17.2	121.3	462.2	216.5	681.6	13.6	17.4	329.6
367	Electronic components and accessories	–	155	54	7.5	87.4	5.1	9.6	46.2	162.2	100.9	271.9	10.5	6.3	107.2

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Nassau-Suffolk SMSA—Con.													
36	Electric and electronic equipment—Con.													
369	Miscellaneous electrical equipment and supplies	E1	31	7	0.7	7.0	0.6	1.1	4.0	11.3	14.9	30.2	0.6	1.2	16.7
3699	Electrical equipment and supplies, n.e.c.	E1	17	5	0.6	4.7	0.5	0.9	3.0	11.1	11.3	21.9	0.3	0.7	9.4
38	Instruments and related products	E1	225	86	9.1	117.4	5.4	10.7	54.9	271.2	176.9	441.1	8.7	7.8	145.1
382	Measuring and controlling devices	–	68	34	4.0	56.0	2.1	4.2	22.6	111.6	62.6	170.2	4.1	3.3	60.8
384	Medical instruments and supplies	E1	55	12	1.4	14.5	1.0	1.9	7.6	37.0	23.7	60.1	1.1	1.2	19.2
39	Miscellaneous manufacturing industries	E1	298	57	5.8	57.4	4.1	7.6	32.3	119.2	132.4	250.9	3.9	6.2	95.3
391	Jewelry, silverware, and plated ware	–	40	7	0.5	4.9	0.4	0.7	2.6	9.6	29.1	38.3	0.2	0.3	3.9
394	Toys and sporting goods	E1	43	10	2.1	19.8	1.3	2.3	9.8	45.9	43.4	89.2	0.8	2.7	48.9
3944	Games, toys, and children's vehicles	–	18	5	1.6	15.7	0.9	1.7	7.3	37.5	34.2	71.6	0.4	2.1	38.7
395	Pens, pencils, office and art supplies	–	20	7	0.9	9.7	0.6	1.1	5.0	17.2	21.5	37.3	0.8	0.8	11.7
3955	Carbon paper and inked ribbons	–	5	4	0.6	7.3	0.4	0.7	3.5	12.9	18.5	30.2	(D)	(NA)	(NA)
399	Miscellaneous manufactures	E2	166	26	1.9	19.0	1.5	2.7	12.0	39.1	31.1	71.4	1.8	1.8	23.6
3993	Signs and advertising displays	E2	79	11	0.8	9.1	0.6	1.1	5.7	17.3	12.7	29.8	0.7	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	E3	79	13	1.0	9.0	0.8	1.5	5.9	18.1	14.4	34.1	1.0	0.7	8.8
	New York, N.Y.-N.J., SMSA	–	**25 831**	**8 040**	**796.6**	**10 313.0**	**489.0**	**909.7**	**4 519.2**	**19 878.3**	**21 494.9**	**41 187.9**	**862.5**	**949.2**	**15 120.8**
20	Food and kindred products	–	891	289	34.1	479.3	23.1	46.7	286.3	1 528.8	2 537.9	4 071.5	89.5	47.9	1 287.2
201	Meat products	E1	118	42	3.6	58.4	2.9	6.2	44.2	129.0	331.1	460.6	12.6	4.9	95.0
2011	Meat packing plants	E7	27	4	0.3	4.0	0.2	0.5	3.1	7.2	34.6	41.7	(D)	0.3	7.3
2013	Sausages and other prepared meats	E1	85	37	3.2	52.7	2.5	5.3	39.6	117.5	283.6	402.2	10.8	4.3	82.2
202	Dairy products	–	78	28	3.0	49.0	1.7	3.7	28.0	118.3	363.0	479.9	4.1	4.4	129.8
2024	Ice cream and frozen desserts	–	30	9	0.9	15.1	0.5	1.1	8.7	37.9	64.0	101.9	2.0	1.4	43.0
2026	Fluid milk	–	30	14	1.8	31.0	1.0	2.2	17.5	76.2	261.5	336.5	1.8	2.8	79.9
203	Preserved fruits and vegetables	E2	87	38	2.8	31.0	2.0	4.1	18.8	96.0	113.1	209.0	3.5	2.4	53.4
2033	Canned fruits and vegetables	E7	21	8	0.4	3.8	0.3	0.6	2.7	13.3	17.5	30.9	0.6	0.4	8.4
2034	Dehydrated fruits, vegetables, and soups	–	6	5	0.5	4.3	0.3	0.7	3.1	11.7	11.6	23.2	0.6	(NA)	(NA)
2035	Pickles, sauces, and salad dressings	E1	27	13	0.8	9.6	0.6	1.0	5.1	30.6	38.0	68.5	0.9	0.9	22.9
2038	Frozen specialties	–	21	10	1.0	12.2	0.7	1.5	7.1	36.6	40.5	77.1	1.2	0.8	12.5
204	Grain mill products	–	13	8	0.7	12.8	0.5	1.1	7.1	38.6	54.5	92.5	(D)	0.5	14.8
2045	Blended and prepared flour	–	5	4	0.5	10.7	0.3	0.8	5.7	31.5	43.7	74.7	(D)	(NA)	(NA)
205	Bakery products	E1	248	56	9.3	125.5	6.1	11.7	70.7	326.9	218.4	545.0	7.3	11.9	230.0
206	Sugar and confectionery products	–	60	24	5.1	65.8	3.9	7.5	45.4	281.6	394.9	676.1	31.0	5.6	176.2
2065	Confectionery products	E1	47	17	2.1	21.0	1.7	3.4	14.5	88.2	63.6	151.5	3.7	(NA)	(NA)
207	Fats and oils	–	12	3	0.3	5.8	0.2	0.4	3.6	25.3	104.9	132.3	(D)	1.1	40.2
208	Beverages	–	107	34	4.5	70.3	2.3	4.8	32.2	287.6	365.7	653.6	13.2	11.1	390.7
2086	Bottled and canned soft drinks	–	58	18	3.1	47.7	1.5	3.0	21.1	151.7	236.8	388.4	9.5	4.3	108.0
2087	Flavoring extracts and sirups, n.e.c.	–	33	13	1.0	15.2	0.5	1.2	7.1	114.4	93.3	208.1	2.5	1.3	82.1
209	Miscellaneous foods and kindred products	–	168	56	4.7	60.7	3.4	7.2	36.4	225.4	592.4	822.5	12.9	5.9	157.2
2091	Canned and cured seafoods	–	18	9	0.5	5.7	0.3	0.7	3.5	18.4	32.6	51.2	0.4	(NA)	(NA)
2098	Macaroni and spaghetti	–	34	9	1.0	11.1	0.8	1.9	8.2	37.0	40.8	77.8	1.0	(NA)	(NA)
2099	Food preparations, n.e.c.	–	75	21	1.9	25.5	1.4	2.9	14.5	62.5	105.3	168.8	9.8	2.9	73.4
2251	Women's hosiery, except socks	E0	7	3	0.4	2.5	0.3	0.6	2.0	4.8	5.0	9.8	(D)	(NA)	(NA)
2253	Knit outerwear mills	E2	440	236	15.5	131.4	13.4	24.8	96.1	232.7	328.9	556.4	(D)	18.5	225.4
2257	Circular knit fabric mills	–	132	50	4.9	49.6	4.0	8.0	36.8	106.1	297.3	404.8	(D)	8.3	162.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York, N.Y.-N.J., SMSA—Con.													
2258	Warp knit fabric mills	–	50	23	2.4	24.5	2.1	4.4	16.8	43.5	102.7	147.0	(D)	1.8	35.8
2259	Knitting mills, n.e.c.	E3	64	18	1.3	10.3	1.2	2.3	8.0	13.4	23.6	36.8	(D)	(NA)	(NA)
2262	Finishing plants, synthetics	E1	40	23	1.6	19.0	1.4	3.1	14.5	33.4	40.8	76.0	3.8	2.4	29.4
2269	Finishing plants, n.e.c.	–	23	9	1.0	11.3	0.9	1.8	8.3	24.6	25.3	48.3	(D)	2.2	30.5
2282	Throwing and winding mills	E1	12	2	0.3	3.2	0.3	0.6	2.3	5.1	10.1	15.0	0.5	0.4	4.7
2295	Coated fabrics, not rubberized	E2	17	10	0.5	5.2	0.3	0.6	2.9	11.0	15.1	25.7	0.6	1.2	24.0
2299	Textile goods, n.e.c.	E5	92	22	1.3	10.9	1.1	2.2	8.0	21.1	26.8	47.4	1.7	(NA)	(NA)
23	Apparel and other textile products	E2	7 374	2 841	192.1	1 589.9	157.6	274.3	1 052.6	3 609.0	5 066.0	8 599.8	72.1	219.4	2 883.9
232	Men's and boys' furnishings	E1	442	182	18.9	147.4	14.5	25.9	91.8	353.6	606.8	931.3	12.2	16.9	257.6
2321	Men's and boys' shirts and nightwear	E1	135	59	4.7	40.0	3.7	6.8	20.7	139.9	320.7	428.6	1.2	4.7	77.2
2327	Men's and boys' separate trousers	E1	95	31	7.5	52.5	5.2	8.8	34.3	108.5	158.4	269.1	3.5	(NA)	(NA)
2328	Men's and boys' work clothing	E3	26	15	0.7	4.7	0.6	1.0	3.5	9.6	12.2	22.0	0.2	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c.	E1	93	40	3.5	26.5	3.0	5.8	18.2	49.1	68.0	118.7	5.6	(NA)	(NA)
233	Women's and misses' outerwear	E2	3 793	1 674	99.5	807.1	82.0	140.5	532.0	1 935.9	2 586.4	4 490.0	36.1	103.7	1 321.4
2331	Women's and misses' blouses and waists	–	333	182	11.3	95.5	9.2	15.6	59.1	318.3	416.4	731.3	5.8	9.4	147.2
2335	Women's and misses' dresses	E3	2 277	875	49.8	380.8	41.5	71.2	258.0	797.7	946.6	1 734.9	16.3	57.5	666.5
2337	Women's and misses' suits and coats	E1	620	326	19.8	180.7	16.1	28.3	118.6	416.5	612.2	1 024.0	5.5	23.3	344.0
2339	Women's and misses' outerwear, n.e.c.	E2	563	291	18.6	150.1	15.1	25.5	96.3	403.4	611.2	999.7	8.4	13.6	163.8
234	Women's and children's undergarments	–	317	156	11.6	95.0	9.0	15.6	51.9	231.8	345.2	573.7	2.3	15.6	239.9
2341	Women's and children's underwear	E1	255	126	8.2	66.2	6.5	11.2	38.4	166.0	252.7	416.0	1.5	9.1	141.9
2342	Brassieres and allied garments	–	62	30	3.4	28.8	2.5	4.4	13.5	65.7	92.5	157.8	0.8	6.5	98.0
235	Hats, caps, and millinery	E3	175	51	3.0	22.6	2.5	4.5	16.1	39.5	43.4	82.5	(D)	3.5	35.2
236	Children's outerwear	E1	301	158	10.2	78.1	8.5	15.0	53.6	172.6	243.1	414.7	2.2	14.7	205.4
2361	Children's dresses and blouses	E1	147	88	5.5	43.2	4.4	7.9	28.5	102.1	140.6	239.7	1.1	6.4	95.8
2363	Children's coats and suits	E1	46	19	1.2	10.1	1.0	1.7	7.0	21.2	34.4	55.0	0.4	2.7	36.4
2369	Children's outerwear, n.e.c.	E2	108	51	3.5	24.8	3.0	5.4	18.1	49.3	68.1	120.0	0.6	5.6	73.2
238	Miscellaneous apparel and accessories	E1	461	190	11.9	96.9	10.2	17.6	65.7	207.2	268.1	469.0	6.2	16.1	205.6
2386	Leather and sheep lined clothing	E1	112	34	2.0	18.0	1.7	3.0	13.3	30.2	55.7	85.0	0.3	2.1	27.4
2387	Apparel belts	E1	139	53	3.2	25.5	2.7	4.5	16.2	48.6	49.1	96.1	0.9	5.0	61.9
239	Miscellaneous fabricated textile products	E2	1 197	318	23.6	206.3	19.7	35.6	140.9	392.1	552.2	944.3	9.7	28.3	335.0
2391	Curtains and draperies	–	147	37	2.7	23.4	2.4	4.2	16.7	53.6	105.2	158.4	0.5	3.5	39.1
2392	House furnishings, n.e.c.	E1	247	81	7.3	56.5	5.9	11.0	36.4	110.7	207.2	316.9	3.0	7.6	102.4
2393	Textile bags	E1	22	5	0.5	4.4	0.4	0.8	2.7	8.6	10.5	19.2	0.1	(NA)	(NA)
2394	Canvas and related products	E2	39	6	0.7	5.2	0.6	0.9	3.7	7.8	7.6	15.5	0.2	(NA)	(NA)
2395	Pleating and stitching	E2	272	74	4.9	41.4	4.2	7.2	28.3	78.3	82.2	159.5	1.9	6.7	71.6
2396	Automotive and apparel trimmings	E3	242	65	3.9	42.9	3.3	6.0	30.3	72.6	79.9	153.5	1.7	5.5	65.0
2397	Schiffli machine embroideries	E1	106	17	1.3	14.6	1.1	2.2	10.1	27.7	25.6	53.4	1.3	1.2	21.3
2399	Fabricated textile products, n.e.c.	E3	122	33	2.2	17.9	1.9	3.2	12.7	32.8	33.9	68.0	1.2	2.3	21.4
242	Sawmills and planing mills	E2	43	8	0.5	4.2	0.4	0.8	3.2	6.2	6.5	12.8	0.3	(NA)	(NA)
2426	Hardwood dimension and flooring	E1	28	5	0.3	2.9	0.3	0.5	2.2	4.6	4.4	9.0	0.1	0.5	4.7
243	Millwork, plywood, and structural members	E2	161	28	2.2	26.4	1.8	3.5	19.2	46.8	48.8	93.9	1.8	2.8	38.8
2431	Millwork	E2	85	14	1.0	13.9	0.9	1.7	9.8	24.9	33.4	56.9	1.2	1.5	21.1
2434	Wood kitchen cabinets	E3	71	13	1.1	12.1	0.9	1.8	9.0	20.9	14.7	35.4	(D)	1.3	15.7
244	Wood containers	E1	22	5	0.3	2.5	0.3	0.5	1.7	3.6	4.5	8.0	0.1	0.7	6.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York, N.Y.-N.J., SMSA—Con.													
249	Miscellaneous wood products	E1	142	17	1.7	17.8	1.4	2.6	10.9	34.7	37.7	72.5	1.6	2.5	30.5
2499	Wood products, n.e.c.	E1	138	17	1.7	17.6	1.4	2.5	10.7	34.3	37.2	71.7	(D)	(NA)	(NA)
25	Furniture and fixtures	E2	729	164	14.2	150.2	11.4	21.7	103.9	274.4	241.1	511.1	11.3	17.1	233.2
251	Household furniture	E3	384	64	5.2	48.0	4.4	8.1	33.5	86.2	91.0	176.1	3.6	7.6	87.7
2511	Wood household furniture	E4	189	28	2.2	18.3	1.9	3.6	14.0	32.2	28.7	60.1	2.1	2.6	28.6
2512	Upholstered household furniture	E5	66	7	0.6	6.2	0.5	1.0	4.6	10.5	7.7	18.1	0.3	1.3	14.8
2514	Metal household furniture	E2	61	16	1.6	14.5	1.2	2.2	9.1	28.1	33.6	61.4	0.8	1.6	21.5
2515	Mattresses and bedsprings	E3	48	10	0.7	7.3	0.5	0.9	4.6	12.0	17.7	29.6	(D)	1.5	16.1
252	Office furniture	E1	38	20	2.6	26.5	2.0	4.0	17.8	53.7	33.3	84.8	4.1	2.5	35.9
2521	Wood office furniture	E1	21	8	0.5	4.7	0.4	0.7	3.8	7.7	5.2	12.9	0.2	(NA)	(NA)
2522	Metal office furniture	E1	17	12	2.1	21.8	1.6	3.3	14.0	46.0	28.1	71.9	3.9	(NA)	(NA)
254	Partitions and fixtures	E1	193	60	4.6	56.7	3.7	7.1	40.3	94.2	76.0	169.2	2.8	5.0	79.0
2541	Wood partitions and fixtures	E1	104	33	2.4	32.4	1.9	3.7	23.8	48.1	33.3	81.2	0.6	2.8	46.6
2542	Metal partitions and fixtures	E2	89	27	2.2	24.3	1.8	3.4	16.5	46.0	42.7	88.0	2.2	2.1	32.4
259	Miscellaneous furniture and fixtures	E1	106	19	1.6	17.8	1.2	2.3	11.4	38.7	38.8	77.4	0.7	1.7	23.6
2591	Drapery hardware and blinds and shades	E1	68	8	0.8	8.0	0.6	1.1	5.4	18.4	15.8	34.0	0.4	(NA)	(NA)
2599	Furniture and fixtures, n.e.c.	–	38	11	0.8	9.7	0.6	1.2	6.0	20.4	23.1	43.4	0.3	(NA)	(NA)
26	Paper and allied products	E1	471	228	22.1	275.6	17.3	34.3	182.6	568.2	662.3	1 227.8	54.9	25.4	407.1
264	Miscellaneous converted paper products	E2	291	116	11.4	138.9	8.8	17.4	91.0	299.6	360.2	655.4	33.7	12.3	196.1
2641	Paper coating and glazing	E3	36	15	1.0	14.4	0.8	1.6	9.8	24.8	30.2	55.2	0.9	1.1	20.0
2642	Envelopes	–	30	21	2.6	31.7	2.1	4.1	21.8	65.1	67.3	131.9	3.5	2.8	45.6
2643	Bags, except textile bags	E3	54	23	1.8	23.2	1.3	2.5	13.1	44.6	72.8	116.8	7.8	2.6	37.7
2645	Die-cut paper and board	E1	60	21	1.7	20.7	1.4	2.7	14.1	42.3	51.9	93.8	(D)	2.2	38.2
2649	Converted paper products, n.e.c.	E3	80	28	3.0	36.0	2.3	4.7	23.0	74.4	89.1	160.5	6.2	1.4	20.2
265	Paperboard containers and boxes	E1	168	104	10.0	121.8	7.9	15.6	82.0	226.0	242.1	470.2	12.1	12.3	190.2
2651	Folding paperboard boxes	–	51	30	2.8	38.3	2.3	4.6	27.2	73.3	68.1	143.1	2.7	3.2	55.2
2652	Setup paperboard boxes	E2	37	28	2.2	19.5	1.9	3.4	13.8	32.9	22.4	55.5	1.2	2.9	34.5
2653	Corrugated and solid fiber boxes	E1	58	38	3.8	51.0	2.8	5.6	31.5	95.6	127.4	222.8	7.1	4.9	81.8
2655	Fiber cans, drums, and similar products	–	13	5	0.7	8.3	0.6	1.3	6.1	13.4	10.8	24.2	0.7	0.9	10.0
27	Printing and publishing	–	4 670	892	120.1	1 855.4	48.4	88.3	679.6	5 437.3	2 959.2	8 411.8	140.7	130.8	3 631.2
2711	Newspapers	–	227	53	17.7	329.6	9.8	15.6	181.7	592.6	270.9	863.3	24.4	19.4	437.5
2721	Periodicals	–	494	130	27.6	465.7	1.6	3.2	27.9	1 973.7	1 184.1	3 150.8	24.8	25.7	1 067.1
273	Books	–	494	137	22.2	327.7	3.5	7.1	39.5	1 465.3	725.9	2 213.1	30.4	23.5	963.2
2731	Book publishing	–	363	103	19.4	290.3	1.4	3.1	14.9	1 400.5	677.0	2 095.4	26.9	20.4	902.8
2732	Book printing	E2	131	34	2.8	37.4	2.1	3.9	24.5	64.8	48.9	117.7	3.5	3.1	60.4
2741	Miscellaneous publishing	–	393	46	9.6	116.1	1.5	2.8	12.6	268.0	103.9	371.1	8.0	9.8	173.7
275	Commercial printing	E2	2 243	313	26.5	388.5	19.9	37.0	263.3	724.2	505.1	1 227.1	34.9	31.2	615.8
2751	Commercial printing, letterpress	E3	1 220	130	9.7	119.3	7.6	13.7	80.5	228.3	152.1	379.2	12.5	12.7	223.4
2752	Commercial printing, lithographic	E1	922	168	14.4	234.3	10.5	20.0	156.5	419.7	326.7	744.3	17.9	16.1	342.8
2753	Engraving and plate printing	–	61	12	2.1	30.1	1.6	2.7	22.8	68.2	20.6	89.8	3.8	1.8	35.8
2754	Commercial printing, gravure	E3	40	3	0.3	4.7	0.3	0.5	3.6	8.0	5.7	13.7	0.7	0.6	13.8
2761	Manifold business forms	–	47	16	1.4	18.5	0.9	1.8	9.9	40.6	30.8	70.8	(D)	1.6	31.8
2771	Greeting card publishing	E1	36	9	1.0	9.6	0.5	0.9	3.4	22.0	15.8	37.1	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York, N.Y.-N.J., SMSA—Con.														
27	Printing and publishing—Con.														
278	Blankbooks and bookbinding	E1	274	82	5.9	62.3	5.1	9.7	47.7	112.7	53.4	165.7	3.9	8.1	113.7
2782	Blankbooks and looseleaf binders	E1	63	29	1.9	17.2	1.6	3.1	12.0	36.4	32.0	68.5	1.2	3.1	45.3
2789	Bookbinding and related work	E1	211	53	4.0	45.0	3.5	6.6	35.7	76.3	21.4	97.2	2.6	5.0	68.4
279	Printing trade services	E1	462	106	8.1	137.4	5.6	10.4	93.6	238.2	69.2	312.7	12.4	9.7	187.5
2791	Typesetting	E1	295	69	4.3	67.8	3.2	5.9	49.9	120.1	20.8	139.9	5.5	5.3	104.0
2795	Lithographic platemaking services	-	101	23	2.0	35.4	1.3	2.5	21.7	58.4	34.1	98.8	3.6	(NA)	(NA)
28	Chemicals and allied products	-	685	208	27.3	398.2	16.7	32.7	198.9	1 610.1	1 285.9	2 880.8	128.9	28.5	1 190.9
281	Industrial inorganic chemicals	-	21	7	0.8	13.0	0.4	1.0	6.7	50.0	51.8	93.5	20.2	1.0	32.2
2819	Industrial inorganic chemicals, n.e.c.	-	14	3	0.5	9.5	0.3	0.6	4.6	30.3	35.0	59.1	(D)	0.5	17.5
283	Drugs	-	96	35	9.0	131.6	5.6	10.6	71.9	570.2	338.8	904.4	22.3	8.2	518.5
2834	Pharmaceutical preparations	-	65	22	7.8	115.3	4.9	9.1	62.4	517.8	278.1	794.5	16.9	7.2	494.5
284	Soaps, cleaners, and toilet goods	-	257	76	10.3	151.2	6.4	12.8	71.0	687.3	493.6	1 184.1	21.3	10.6	436.3
2841	Soap and other detergents	-	47	15	2.0	36.3	1.3	2.8	21.6	102.7	166.5	270.0	10.2	1.9	99.3
2842	Polishes and sanitation goods	E1	73	22	1.7	21.5	0.9	1.8	8.7	77.6	68.4	146.9	3.0	2.1	63.4
2843	Surface active agents	-	14	6	0.4	6.2	0.2	0.4	2.8	17.7	32.6	49.4	0.5	0.6	21.9
2844	Toilet preparations	-	123	33	6.2	87.3	4.0	7.8	37.9	489.4	226.0	717.8	7.6	6.0	251.7
2851	Paints and allied products	E2	115	34	2.2	28.4	1.3	2.5	14.0	78.4	107.0	184.2	4.3	3.0	64.2
286	Industrial organic chemicals	-	41	18	2.5	37.7	1.6	3.2	19.2	134.2	169.3	299.9	11.1	1.9	48.8
2865	Cyclic crudes and intermediates	-	11	6	0.8	11.2	0.5	1.0	6.6	33.9	52.7	85.1	(D)	(NA)	(NA)
2869	Industrial organic chemicals, n.e.c.	-	27	12	1.7	26.3	1.1	2.2	12.4	99.9	115.2	212.6	9.3	1.4	35.7
289	Miscellaneous chemical products	E1	141	35	2.4	33.9	1.3	2.4	14.6	78.2	107.8	185.5	(D)	3.2	81.0
2891	Adhesives and sealants	E1	31	7	0.4	6.0	0.3	0.5	2.5	13.0	19.5	32.3	(D)	0.6	17.6
2893	Printing ink	E1	33	15	1.1	16.5	0.6	1.2	8.4	37.8	52.9	90.1	(D)	1.2	27.2
2899	Chemical preparations, n.e.c.	E1	77	13	0.8	11.4	0.4	0.7	3.7	27.4	35.4	63.1	(D)	1.5	36.3
29	Petroleum and coal products	E2	38	11	0.6	9.7	0.3	0.7	5.1	17.1	41.6	59.9	0.9	(NA)	(NA)
295	Paving and roofing materials	E2	24	6	0.3	4.6	0.2	0.4	2.7	8.7	25.2	34.1	0.4	0.9	31.9
30	Rubber and miscellaneous plastics products	E2	541	193	15.2	160.5	12.2	23.3	105.9	339.3	381.0	714.3	28.1	18.3	280.9
3041	Rubber and plastics hose and belting	-	7	5	0.5	5.6	0.3	0.7	3.4	20.4	19.4	38.7	(D)	(NA)	(NA)
3069	Fabricated rubber products, n.e.c.	E4	35	7	0.5	6.0	0.4	0.9	4.2	10.0	7.1	17.0	0.3	0.7	10.7
3079	Miscellaneous plastics products	E2	496	181	14.2	148.7	11.4	21.7	98.2	308.5	354.1	657.7	27.2	16.5	252.5
31	Leather and leather products	E2	497	211	18.6	142.7	16.1	29.1	101.8	282.9	272.1	552.5	6.6	23.7	240.9
314	Footwear, except rubber	E1	57	34	4.4	32.2	3.9	6.8	25.3	55.9	47.2	103.2	1.9	6.7	66.2
3149	Footwear, except rubber, n.e.c.	E5	12	7	0.6	4.5	0.6	0.9	3.7	8.4	6.7	15.1	(D)	(NA)	(NA)
3161	Luggage	E1	69	37	3.7	29.5	3.2	5.7	20.4	59.2	52.5	110.5	0.7	3.3	34.5
317	Handbags and other personal leather goods	E2	247	121	9.0	68.8	7.8	14.5	47.9	145.4	142.5	287.2	3.5	12.0	119.8
3171	Women's handbags and purses	E2	177	87	6.8	51.6	6.0	11.2	37.3	112.2	106.0	217.8	2.9	8.9	83.4
3172	Personal leather goods	E2	70	34	2.2	17.2	1.8	3.3	10.6	33.2	36.4	69.4	0.6	3.0	36.4
3199	Leather goods, n.e.c.	E3	66	12	1.0	7.5	0.8	1.4	4.8	13.9	14.4	27.7	0.2	(NA)	(NA)
32	Stone, clay, and glass products	E1	379	84	6.6	79.2	5.1	10.1	54.3	172.8	173.1	346.8	13.4	9.2	160.4
322	Glass and glassware, pressed or blown	-	14	4	0.5	6.7	0.5	1.0	5.6	19.5	13.8	33.6	0.7	(NA)	(NA)
3231	Products of purchased glass	E2	101	25	2.0	22.2	1.6	3.1	15.3	45.7	40.7	85.7	4.4	2.2	31.1
326	Pottery and related products	E3	26	6	0.3	2.6	0.3	0.5	1.9	5.6	3.0	8.6	0.3	0.5	6.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York, N.Y.-N.J., SMSA—Con.													
32	Stone, clay, and glass products—Con.													
327	Concrete, gypsum, and plaster products	E1	111	23	1.8	25.8	1.3	2.6	17.7	48.5	73.8	123.8	4.4	3.3	75.4
3272	Concrete products, n.e.c.	E4	51	6	0.4	5.0	0.3	0.6	3.1	10.7	7.6	18.2	0.6	0.9	16.4
3273	Ready-mixed concrete	E1	39	11	0.7	11.4	0.5	0.9	7.7	19.3	27.6	46.9	1.0	1.4	35.8
3275	Gypsum products	-	7	4	0.5	7.5	0.4	0.9	5.8	15.0	32.9	49.6	(D)	0.8	17.8
3281	Cut stone and stone products	E2	30	2	0.3	2.5	0.1	0.3	1.2	4.5	3.2	7.7	0.1	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products	E2	92	22	1.7	18.9	1.3	2.6	12.1	47.9	37.9	85.5	3.5	2.0	30.8
3291	Abrasive products	E3	28	11	0.7	8.0	0.5	1.0	5.0	22.6	17.9	40.4	1.5	0.6	9.1
3299	Nonmetallic mineral products, n.e.c.	E2	38	5	0.4	4.2	0.3	0.6	2.5	10.2	4.7	15.0	1.0	0.5	6.3
33	Primary metal industries	-	221	85	11.3	147.3	8.4	17.0	95.0	343.9	855.4	1 190.3	13.3	13.2	221.0
331	Blast furnace and basic steel products	E2	32	11	0.9	11.6	0.7	1.4	7.9	19.7	30.0	50.3	1.0	1.3	23.9
3315	Steel wire and related products	E1	16	6	0.4	4.8	0.3	0.6	3.0	9.1	11.6	20.8	(D)	(NA)	(NA)
3341	Secondary nonferrous metals	-	27	6	1.2	18.9	0.9	1.6	11.3	57.5	264.5	312.6	3.1	1.3	30.9
335	Nonferrous rolling and drawing	-	43	26	4.7	58.8	3.2	6.5	34.7	147.1	478.0	624.3	4.1	5.6	91.3
3356	Nonferrous rolling and drawing, n.e.c.	-	21	11	0.8	11.6	0.6	1.2	7.0	42.6	269.3	310.8	0.9	(NA)	(NA)
3357	Nonferrous wire drawing and insulating	-	16	12	3.2	39.1	2.1	4.1	22.2	88.6	177.7	266.7	2.9	4.1	68.0
336	Nonferrous foundries	E1	58	22	2.1	22.3	1.7	3.2	15.6	40.4	36.0	77.7	1.9	2.7	34.4
3361	Aluminum foundries	E3	17	6	0.4	4.3	0.3	0.7	3.3	6.9	6.1	12.9	0.7	(NA)	(NA)
3369	Nonferrous foundries, n.e.c.	-	26	12	1.5	15.8	1.1	2.2	10.7	29.8	27.0	58.2	1.1	2.1	27.7
339	Miscellaneous primary metal products	E1	40	13	1.2	18.4	1.0	2.5	13.3	46.0	15.1	60.8	1.6	1.1	20.4
3398	Metal heat treating	-	24	7	1.0	14.8	0.8	2.0	11.0	38.2	9.0	47.1	1.1	0.9	17.1
3399	Primary metal products, n.e.c.	E2	16	6	0.3	3.7	0.2	0.5	2.3	7.8	6.1	13.7	0.5	(NA)	(NA)
34	Fabricated metal products	E1	1 498	450	38.3	456.9	28.9	56.9	283.4	909.5	801.0	1 699.0	44.1	42.1	680.9
341	Metal cans and shipping containers	E1	18	8	0.8	10.6	0.6	1.3	8.2	25.6	34.6	60.0	(D)	1.7	31.6
3411	Metal cans	E1	13	5	0.3	5.7	0.3	0.6	4.8	12.8	16.1	28.6	0.4	(NA)	(NA)
3412	Metal barrels, drums, and pails	E1	5	3	0.4	4.9	0.3	0.7	3.4	12.9	18.5	31.4	(D)	(NA)	(NA)
342	Cutlery, hand tools, and hardware	-	95	38	4.7	52.3	3.6	6.8	33.5	123.6	73.5	193.1	7.5	4.4	76.4
3421	Cutlery	-	5	3	0.5	4.8	0.4	0.8	3.1	13.6	6.9	18.5	(D)	(NA)	(NA)
3429	Hardware, n.e.c.	E1	60	21	3.0	35.3	2.3	4.2	21.7	79.9	49.0	127.7	3.4	3.7	63.0
343	Plumbing and heating, except electric	E1	41	13	1.2	12.4	0.8	1.4	5.6	26.9	29.8	58.3	1.1	1.3	28.9
3432	Plumbing fittings and brass goods	E1	16	6	0.9	7.8	0.6	1.0	3.6	16.0	17.4	35.3	(D)	(NA)	(NA)
344	Fabricated structural metal products	E1	441	108	9.9	137.8	6.8	13.4	76.7	257.2	239.3	496.8	13.3	11.9	194.0
3441	Fabricated structural metal	E2	98	14	1.2	17.9	0.9	1.8	11.3	40.1	30.7	70.0	1.5	2.6	60.0
3442	Metal doors, sash, and trim	E1	87	27	2.7	26.8	2.0	3.9	18.8	43.0	48.3	91.3	1.1	3.4	39.5
3443	Fabricated plate work (boiler shops)	-	35	12	2.1	39.6	1.1	2.1	14.7	70.1	70.3	141.5	2.8	0.8	14.0
3444	Sheet metal work	E2	113	36	2.3	30.5	1.7	3.3	19.0	59.1	46.3	106.0	2.8	3.1	47.8
3446	Architectural metal work	E2	92	14	0.9	12.5	0.7	1.3	7.9	25.8	16.0	41.9	(D)	1.6	24.9
345	Screw machine products, bolts, etc.	E1	80	30	2.1	26.1	1.6	3.3	16.9	46.4	42.7	87.9	1.9	2.5	42.5
3451	Screw machine products	E2	51	15	0.9	10.7	0.8	1.7	7.8	20.0	14.4	34.3	0.7	1.3	19.8
3452	Bolts, nuts, rivets, and washers	-	29	15	1.2	15.4	0.8	1.6	9.1	26.4	28.3	53.6	1.2	1.2	22.7
346	Metal forgings and stampings	E1	174	73	5.7	68.3	4.5	9.1	45.5	142.8	140.7	281.1	7.3	5.6	90.4
347	Metal services, n.e.c.	E2	315	82	5.4	49.3	4.6	8.8	34.9	88.9	49.6	137.9	3.2	5.5	67.8
3471	Plating and polishing	E2	219	62	4.4	39.0	3.8	7.2	27.9	72.1	33.1	104.7	2.6	4.3	52.7
3479	Metal coating and allied services	E2	96	20	1.0	10.4	0.9	1.6	7.0	16.8	16.5	33.2	0.7	1.2	15.2
349	Miscellaneous fabricated metal products	E1	328	97	8.4	99.7	6.3	12.6	61.9	197.4	190.5	382.9	9.3	8.5	137.7

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York, N.Y.-N.J., SMSA—Con.														
34	Fabricated metal products—Con.														
349	Miscellaneous fabricated metal products—Con.														
3494	Valves and pipe fittings	–	29	11	1.8	24.8	1.2	2.5	14.5	58.7	39.7	96.0	3.2	1.9	44.6
3496	Miscellaneous fabricated wire products	E2	89	25	2.0	20.8	1.6	3.3	14.2	41.6	38.2	79.6	1.7	2.8	35.8
3497	Metal foil and leaf	E1	8	4	0.3	4.0	0.2	0.4	2.6	9.1	14.6	23.8	0.6	(NA)	(NA)
3498	Fabricated pipe and fittings	–	21	11	1.1	14.2	0.8	1.5	8.6	24.6	32.5	55.3	1.3	0.6	10.6
3499	Fabricated metal products, n.e.c.	E2	172	40	2.9	31.4	2.2	4.3	19.0	53.6	59.2	112.3	2.3	2.5	33.2
35	Machinery, except electrical	E1	1 300	234	24.2	322.3	16.6	32.0	185.2	607.3	466.7	1 067.6	38.2	28.0	471.8
353	Construction and related machinery	E1	60	13	1.9	29.3	1.1	2.3	15.7	48.3	36.5	83.1	1.8	3.7	55.9
3534	Elevators and moving stairways	–	11	7	1.3	20.2	0.8	1.6	11.1	26.1	14.6	40.4	(D)	(NA)	(NA)
354	Metalworking machinery	E1	281	44	3.7	49.2	2.7	5.2	32.1	81.1	55.4	136.6	4.7	3.5	56.7
3544	Special dies, tools, jigs, and fixtures	E2	201	25	2.0	26.1	1.6	3.2	18.8	42.1	23.1	64.6	2.6	2.0	33.6
3545	Machine tool accessories	–	38	10	0.9	12.6	0.6	1.1	7.4	24.6	19.4	44.4	1.6	0.8	13.6
355	Special industry machinery	E1	219	52	4.9	68.8	3.0	5.8	34.7	130.6	95.0	222.0	6.0	5.7	99.9
3551	Food products machinery	E4	32	8	0.7	9.2	0.4	0.8	4.1	19.3	14.4	33.5	1.1	0.8	15.1
3555	Printing trades machinery	E1	77	18	1.6	23.3	1.0	2.0	12.9	43.3	36.0	78.4	1.5	1.7	34.1
3559	Special industry machinery, n.e.c.	E2	59	12	0.9	12.2	0.6	1.3	7.3	23.5	14.5	37.6	0.7	1.0	16.8
356	General industrial machinery	E1	150	41	3.3	44.8	2.2	4.2	24.6	87.4	69.3	155.6	4.0	3.2	63.3
3561	Pumps and pumping equipment	–	13	5	0.6	8.5	0.3	0.6	3.7	20.1	16.3	36.6	0.7	0.6	13.6
357	Office and computing machines	–	45	11	3.2	39.1	2.2	4.4	18.9	85.3	88.9	175.5	4.6	3.3	60.5
358	Refrigeration and service machinery	E1	93	26	2.8	32.9	1.9	3.4	18.5	66.8	72.2	136.3	2.6	4.0	64.3
3585	Refrigeration and heating equipment	E2	38	15	1.3	14.8	1.0	1.7	9.7	28.6	34.9	62.5	1.7	2.2	34.5
3589	Service industry machinery, n.e.c.	E1	43	7	1.0	12.0	0.5	1.0	5.6	27.1	25.5	51.1	(D)	1.2	21.7
3599	Machinery, except electrical, n.e.c.	E2	436	44	4.3	56.4	3.4	6.6	39.5	104.9	47.2	153.3	14.3	(NA)	(NA)
36	Electric and electronic equipment	E1	893	303	39.6	475.9	26.4	50.5	243.1	1 098.4	751.4	1 821.2	40.4	49.9	797.8
3613	Switchgear and switchboard apparatus	E1	21	10	0.8	9.0	0.5	1.0	5.3	15.1	15.2	30.1	(D)	(NA)	(NA)
362	Electrical industrial apparatus	–	47	14	2.7	37.3	1.3	2.5	12.1	67.2	43.4	110.1	2.5	3.6	58.1
3621	Motors and generators	–	13	3	0.6	6.7	0.5	0.9	4.6	12.3	9.0	21.5	0.2	1.1	11.5
3622	Industrial controls	E1	20	5	0.8	9.3	0.5	0.8	3.9	18.0	9.8	27.7	0.8	1.3	22.2
363	Household appliances	E2	65	22	1.4	15.1	1.1	2.1	9.7	33.1	27.8	61.0	(D)	4.6	73.4
3634	Electric housewares and fans	E1	18	6	0.4	3.5	0.3	0.6	2.0	10.9	9.3	20.6	0.3	2.7	46.5
364	Electric lighting and wiring equipment	E1	213	86	10.7	109.6	8.4	16.3	70.0	251.3	213.5	452.6	6.9	13.3	195.5
3644	Noncurrent-carrying wiring devices	–	11	6	0.5	5.4	0.5	0.9	4.1	19.5	9.5	28.9	0.2	(NA)	(NA)
3645	Residential lighting fixtures	E1	112	40	2.8	26.9	2.2	4.1	17.2	57.0	55.5	115.0	0.9	4.4	63.3
3646	Commercial lighting fixtures	E2	24	17	1.3	15.3	1.0	1.9	8.5	33.2	30.8	63.8	0.8	1.4	23.0
3648	Lighting equipment, n.e.c.	E4	22	10	0.5	5.3	0.4	0.8	3.3	10.3	11.2	21.5	0.4	0.5	8.4
365	Radio and TV receiving equipment	E1	175	33	3.6	37.1	2.6	5.0	21.2	160.0	112.1	254.0	2.4	3.7	64.1
3651	Radio and TV receiving sets	–	43	10	1.5	12.9	1.1	2.1	8.7	46.8	60.0	89.5	0.7	2.3	22.8
3652	Phonograph records and prerecorded tape	E1	132	23	2.1	24.2	1.5	2.9	12.5	113.2	52.1	164.5	1.8	1.4	41.3
367	Electronic components and accessories	E1	176	51	7.1	76.6	5.2	9.8	45.2	137.3	87.6	221.9	9.4	7.7	102.1
3674	Semiconductors and related devices	E1	22	10	1.0	13.3	0.7	1.4	8.1	25.1	24.3	48.1	2.2	1.3	14.4
3677	Electronic coils and transformers	–	8	6	0.7	7.1	0.4	0.8	3.1	11.1	3.8	14.7	(D)	0.5	7.3
3678	Electronic connectors	–	8	5	1.9	18.1	1.4	2.5	11.3	29.4	14.4	42.5	2.1	(NA)	(NA)
3679	Electronic components, n.e.c.	E3	128	26	3.1	33.2	2.3	4.4	20.4	62.2	41.5	103.7	4.9	4.0	54.8
369	Miscellaneous electrical equipment and supplies	E1	93	45	6.7	94.5	3.9	7.3	38.4	235.9	142.4	383.4	12.5	3.9	82.3
3693	X-ray, electromedical, and electrotheraputic apparatus	–	27	16	2.9	54.4	1.3	2.4	17.0	155.6	69.8	221.7	5.1	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York, N.Y.-N.J., SMSA—Con.														
36	Electric and electronic equipment—Con.														
369	Miscellaneous electrical equipment and supplies—Con.														
3699	Electrical equipment and supplies, n.e.c.	E1	46	20	1.3	12.1	0.9	1.7	6.9	32.0	28.0	60.2	(D)	(NA)	(NA)
37	Transportation equipment	–	177	67	16.4	280.0	13.9	28.5	225.8	659.4	2 007.2	2 669.5	56.2	20.7	587.0
3713	Truck and bus bodies	E4	17	8	0.3	4.0	0.3	0.6	2.8	6.6	7.9	14.3	0.1	0.4	5.4
3714	Motor vehicle parts and accessories	E2	62	14	1.1	12.4	0.9	1.9	8.3	27.0	30.6	57.2	1.1	1.4	22.1
3728	Aircraft equipment, n.e.c.	E3	18	5	0.5	7.3	0.3	0.7	4.3	13.6	5.3	19.6	0.3	(NA)	(NA)
3732	Boat building and repairing	E1	14	4	0.3	4.0	0.3	0.5	3.3	6.9	4.2	10.9	0.4	(NA)	(NA)
38	Instruments and related products	E1	478	166	20.1	260.3	12.3	24.2	124.2	521.8	426.9	931.4	25.3	22.5	368.4
3811	Engineering and scientific instruments	–	34	13	2.2	36.6	1.1	2.2	15.4	61.5	28.9	92.4	2.3	2.9	52.9
382	Measuring and controlling devices	E1	80	41	3.6	48.2	2.1	4.0	21.2	103.1	64.9	162.1	6.0	2.7	34.9
3825	Instruments to measure electricity	–	27	15	1.8	29.1	1.0	1.9	11.8	64.2	43.2	103.2	1.7	1.1	19.3
3832	Optical instruments and lenses	–	37	11	0.8	10.5	0.5	1.0	5.1	22.9	9.8	32.4	0 6	0.6	11.5
384	Medical instruments and supplies	–	134	36	5.3	66.3	2.9	5.7	29.5	129.3	118.8	244.2	9.7	6.6	121.6
3842	Surgical appliances and supplies	E1	53	17	1.8	21.9	1.2	2.3	12.2	51.3	29.9	79.1	3.8	2.2	35.7
3843	Dental equipment and supplies	–	49	10	0.9	12.4	0.5	1.0	4.6	35.6	56.8	90.6	(D)	1.0	25.5
3851	Ophthalmic goods	E2	58	20	1.9	17.3	1.4	2.8	10.4	32.6	20.2	51.5	1.3	2.3	22.0
3873	Watches, clocks, and watchcases	–	61	25	4.6	55.3	3.2	6.4	30.7	105.4	144.0	242.4	1.8	5.4	91.2
39	Miscellaneous manufacturing industries	E1	2 656	613	52.7	531.3	40.6	73.7	318.7	1 204.2	1 461.4	2 637.2	38.1	61.1	905.8
391	Jewelry, silverware, and plated ware	E1	985	193	14.9	176.2	10.4	18.7	93.4	425.5	811.7	1 217.7	8.5	13.9	258.9
3911	Jewelry, precious metal	E1	719	164	12.4	148.2	8.5	15.3	77.7	336.3	539.1	871.8	7.2	11.1	209.7
3914	Silverware and plated ware	E2	28	8	0.6	5.6	0.5	0.9	4.2	9.6	8.9	18.2	0.2	0.9	10.9
3915	Jewelers' materials and lapidary work	E1	238	21	1.9	22.4	1.4	2.5	11.6	79.6	263.7	327.7	1.2	1.9	38.3
394	Toys and sporting goods	–	214	81	11.3	90.0	9.2	16.0	54.5	227.9	189.9	411.1	9.4	13.3	176.0
3944	Games, toys, and children's vehicles	–	74	28	6.3	55.1	4.9	8.9	30.5	147.9	102.2	245.9	7.2	5.6	92.9
3949	Sporting and athletic goods, n.e.c.	E1	42	16	1.2	9.6	0.9	1.7	6.3	19.2	31.7	50.9	0.9	2.3	33.7
395	Pens, pencils, office and art supplies	E1	104	32	3.0	30.8	2.2	4.5	19.5	71.3	69.7	139.5	2.6	3.4	53.8
3951	Pens and mechanical pencils	E2	32	14	1.1	9.0	0.9	1.8	6.4	24.3	19.2	43.2	0.8	1.0	15.0
3952	Lead pencils and art goods	–	19	8	0.9	9.6	0.6	1.2	5.4	21.3	25.5	45.6	(D)	1.1	16.7
3955	Carbon paper and inked ribbons	–	10	6	0.5	6.0	0.4	0.8	4.6	15.3	20.4	36.1	(D)	(NA)	(NA)
396	Costume jewelry and notions	E1	423	118	8.9	77.4	7.3	13.3	49.6	158.6	138.3	296.4	6.3	10.9	141.7
3961	Costume jewelry	E1	194	51	3.4	28.9	2.7	4.8	17.3	64.0	49.1	111.4	(D)	4.5	57.8
3962	Artificial flowers	–	46	14	1.0	8.7	0.9	1.6	5.7	17.9	22.2	39.9	(D)	(NA)	(NA)
3964	Needles, pins, and fasteners	E1	95	33	3.1	25.2	2.5	4.7	17.7	55.1	49.0	104.0	3.5	3.6	50.7
399	Miscellaneous manufactures	E2	905	183	13.7	147.0	10.6	19.7	94.6	302.6	242.6	544.3	10.9	18.6	262.8
3991	Brooms and brushes	E2	34	14	1.2	11.7	0.9	1.6	6.7	29.1	24.2	53.1	1.7	1.8	25.4
3993	Signs and advertising displays	E1	263	71	5.3	60.4	4.0	7.6	37.6	113.7	79.2	192.7	4.3	5.4	83.7
3995	Burial caskets	–	19	4	0.3	3.1	0.2	0.4	1.9	5.7	10.0	15.7	0.2	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	E2	588	93	6.8	71.1	5.5	10.1	47.9	152.4	126.5	278.3	4.6	11.1	147.4
	Poughkeepsie SMSA	–	229	85	**27.4**	**498.9**	**10.9**	**21.3**	**124.8**	**896.0**	**1 149.2**	**1 970.3**	**(D)**	**22.2**	**448.5**
22	Textile mill products	–	3	3	0.4	3.8	0.3	0.7	2.9	6.5	3.3	9.8	(D)	(NA)	(NA)
226	Textile finishing, except wool	–	3	3	0.4	3.8	0.3	0.7	2.9	6.5	3.3	9.8	(D)	(NA)	(NA)
2262	Finishing plants, synthetics	–	3	3	0.4	3.8	0.3	0.7	2.9	6.5	3.3	9.8	(D)	(NA)	(NA)
23	Apparel and other textile products	E2	13	11	0.6	4.1	0.6	1.0	3.4	8.5	6.6	15.1	(D)	1.0	8.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Poughkeepsie SMSA—Con.														
25	Furniture and fixtures	–	7	4	0.4	3.6	0.3	0.5	2.4	6.4	5.4	11.9	(D)	(NA)	(NA)
	Rochester SMSA	–	**1 316**	**467**	**144.4**	**2 390.1**	**81.7**	**158.3**	**1 129.4**	**6 732.4**	**3 083.9**	**9 735.1**	**335.0**	**142.2**	**4 390.6**
20	Food and kindred products	–	125	54	6.9	83.1	4.8	9.8	50.5	323.7	446.1	769.0	18.0	8.8	263.2
201	Meat products	–	9	5	0.5	5.5	0.4	0.7	4.1	27.0	50.8	77.5	(D)	0.9	15.2
202	Dairy products	E3	25	3	0.4	4.8	0.2	0.3	2.0	13.9	39.9	53.7	0.8	0.8	8.0
2026	Fluid milk	E3	19	2	0.3	4.0	0.1	0.2	1.3	11.1	32.0	43.1	(D)	0.7	7.3
203	Preserved fruits and vegetables	–	36	20	3.3	35.3	2.6	5.3	24.2	168.6	182.4	350.9	5.0	4.7	169.8
2033	Canned fruits and vegetables	–	19	17	1.9	19.9	1.5	3.1	12.4	92.6	108.0	200.6	3.2	2.3	39.2
205	Bakery products	E1	17	7	0.5	7.1	0.3	0.7	4.6	14.7	7.9	22.4	1.2	0.5	8.0
208	Beverages	–	17	9	1.5	23.0	0.8	1.7	10.7	61.9	126.1	188.3	9.0	1.4	45.7
2086	Bottled and canned soft drinks	–	8	4	0.4	6.1	0.1	0.2	1.3	17.0	26.5	43.6	(D)	0.5	8.6
209	Miscellaneous foods and kindred products	–	15	7	0.5	5.2	0.4	0.8	3.6	31.2	25.9	56.7	1.2	0.4	14.4
26	Paper and allied products	–	41	30	3.1	38.0	2.3	4.6	24.3	68.9	104.6	172.5	6.9	3.1	57.2
264	Miscellaneous converted paper products	–	22	13	1.8	23.2	1.3	2.7	14.4	42.8	58.9	100.2	5.5	1.7	34.3
2653	Corrugated and solid fiber boxes	–	9	8	0.6	7.1	0.4	0.8	4.6	11.5	21.6	33.0	0.9	0.6	9.9
27	Printing and publishing	–	217	53	6.9	95.1	3.9	7.0	48.6	188.1	95.7	280.4	14.0	6.8	127.7
2711	Newspapers	–	35	9	2.0	20.9	0.8	1.1	7.1	52.4	13.8	66.2	(D)	2.2	38.2
275	Commercial printing	–	119	23	2.2	36.2	1.6	3.0	22.4	57.6	50.9	107.0	4.5	2.8	55.5
2752	Commercial printing, lithographic	–	64	16	1.8	31.1	1.3	2.4	19.3	48.4	46.3	93.2	4.1	2.2	47.1
278	Blankbooks and bookbinding	–	9	4	0.3	3.3	0.2	0.4	2.1	4.8	1.7	6.5	(D)	(NA)	(NA)
28	Chemicals and allied products	–	40	14	2.4	34.3	1.1	2.3	13.0	134.3	92.5	227.4	(D)	2.1	76.2
283	Drugs	–	5	3	1.3	21.7	0.4	0.9	5.6	74.8	28.4	104.1	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	–	40	17	2.0	22.0	1.5	2.9	14.5	54.1	39.5	92.5	5.3	3.0	49.3
3079	Miscellaneous plastics products	–	35	17	1.9	21.6	1.5	2.9	14.2	53.2	38.7	90.9	5.2	(NA)	(NA)
32	Stone, clay, and glass products	–	57	18	3.0	37.2	2.2	4.2	25.5	84.9	57.1	143.3	4.4	2.2	42.2
327	Concrete, gypsum, and plaster products	E1	32	7	0.4	5.7	0.2	0.5	2.7	11.2	10.7	22.0	0.4	0.8	12.5
33	Primary metal industries	E1	25	12	0.9	12.0	0.7	1.4	8.4	24.0	33.0	56.8	1.4	1.0	18.0
3321	Gray iron foundries	E1	4	3	0.4	4.6	0.3	0.6	3.6	8.5	5.5	14.0	0.3	(NA)	(NA)
34	Fabricated metal products	–	148	59	7.0	98.5	5.4	10.9	66.8	238.4	180.3	378.5	15.8	7.2	144.9
342	Cutlery, hand tools, and hardware	–	10	5	0.8	8.5	0.6	1.2	4.9	21.4	15.0	35.9	(D)	1.2	20.5
344	Fabricated structural metal products	–	40	12	2.6	39.4	1.8	3.4	23.5	104.8	54.8	122.3	2.1	3.2	61.0
345	Screw machine products, bolts, etc.	–	35	19	1.1	15.2	0.9	2.0	11.3	30.1	17.3	47.4	1.7	0.9	18.9
346	Metal forgings and stampings	–	16	7	0.5	5.6	0.4	0.8	4.1	13.5	13.9	27.2	0.4	0.5	8.3
347	Metal services, n.e.c.	E1	20	6	0.4	3.9	0.3	0.6	2.7	5.8	3.2	9.0	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	22	6	0.5	7.5	0.4	0.9	5.1	18.9	16.9	35.5	0.9	0.3	5.5
3499	Fabricated metal products, n.e.c.	–	14	4	0.3	4.6	0.3	0.6	3.0	11.5	7.6	18.8	0.6	(NA)	(NA)
35	Machinery, except electrical	–	261	76	16.4	285.1	11.7	23.9	187.9	563.4	285.4	821.8	55.8	13.8	310.6
353	Construction and related machinery	–	7	5	0.5	6.2	0.3	0.6	3.5	16.2	15.8	31.8	0.7	0.4	6.7
354	Metalworking machinery	–	94	31	5.2	87.3	3.9	7.8	58.6	148.6	48.9	190.8	(D)	4.9	90.3
3544	Special dies, tools, jigs, and fixtures	E3	68	21	1.0	13.7	0.8	1.7	10.2	21.5	7.9	30.0	2.3	1.0	17.7

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Rochester SMSA—Con.													
35	Machinery, except electrical —Con.													
355	Special industry machinery	–	27	10	1.2	19.7	0.7	1.5	10.3	40.6	32.9	67.6	0.8	0.9	14.6
3559	Special industry machinery, n.e.c.	–	12	5	0.8	14.1	0.5	1.0	7.2	30.1	27.9	52.2	0.4	(NA)	(NA)
356	General industrial machinery	–	29	9	1.9	27.1	0.9	1.7	12.0	65.4	37.3	103.2	1.4	1.2	24.6
3569	General industrial machinery, n.e.c.	–	15	6	1.6	22.8	0.7	1.4	9.6	54.5	31.2	86.1	1.1	(NA)	(NA)
357	Office and computing machines	–	11	6	0.9	11.8	0.5	1.0	5.4	38.5	10.5	46.9	1.6	(NA)	(NA)
36	Electric and electronic equipment	–	68	30	11.8	186.3	7.9	15.0	107.3	388.7	207.7	594.2	17.1	11.9	232.6
366	Communication equipment	–	10	9	5.5	82.6	2.6	4.1	26.0	133.6	58.4	200.5	5.7	6.3	106.0
38	Instruments and related products	–	72	38	65.2	1 194.5	33.0	63.2	523.1	4 481.5	1 405.9	5 882.0	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	48	17	3.0	28.8	2.5	4.8	21.4	75.9	56.2	131.6	1.3	2.9	52.0
399	Miscellaneous manufactures	–	33	10	0.8	8.1	0.6	1.2	5.5	15.0	11.2	25.1	(D)	0.6	5.3
3999	Manufacturing industries, n.e.c.	–	16	6	0.6	6.4	0.5	0.9	4.5	11.9	9.5	20.1	0.4	(NA)	(NA)
--	Administrative and auxiliary	–	30	18	10.2	223.3	–	–	–	–	–	–	–	(NA)	(NA)
	Syracuse SMSA	–	**767**	**281**	**57.8**	**893.1**	**37.3**	**74.5**	**513.1**	**2 017.7**	**2 312.6**	**4 300.1**	**152.2**	**60.5**	**1 205.3**
20	Food and kindred products	–	86	35	6.3	94.0	4.4	8.2	62.3	420.7	600.3	1 014.7	39.8	4.3	110.8
201	Meat products	E3	13	4	0.3	3.3	0.2	0.4	2.0	6.4	30.4	35.3	(D)	(NA)	(NA)
202	Dairy products	–	24	10	0.8	9.1	0.4	0.8	4.4	30.4	102.0	131.9	(D)	0.9	23.8
2026	Fluid milk	–	14	5	0.4	4.6	0.2	0.3	1.7	14.3	49.4	63.7	(D)	0.5	11.5
205	Bakery products	–	14	3	0.6	8.0	0.3	0.5	4.0	19.9	12.8	32.7	0.1	0.7	17.4
208	Beverages	–	7	6	2.2	47.4	1.6	3.2	32.8	143.9	290.4	431.6	(D)	0.4	7.7
23	Apparel and other textile products	E1	15	1	0.5	3.9	0.4	0.6	3.0	5.6	2.2	7.8	0.1	0.8	6.8
24	Lumber and wood products	–	42	9	0.8	7.2	0.6	1.2	4.9	10.3	21.5	31.3	1.6	(NA)	(NA)
243	Millwork, plywood, and structural members	–	10	2	0.3	3.1	0.2	0.4	1.9	3.2	11.9	14.9	(D)	(NA)	(NA)
26	Paper and allied products	–	24	20	2.3	33.5	1.8	3.9	23.0	73.6	114.0	187.8	8.1	2.9	44.6
265	Paperboard containers and boxes	–	13	11	1.3	17.7	0.9	2.1	11.9	30.3	42.0	72.0	(D)	1.8	21.8
2653	Corrugated and solid fiber boxes	–	5	4	0.5	7.8	0.4	0.8	4.9	15.4	24.7	39.9	(D)	0.6	9.8
27	Printing and publishing	E1	134	28	2.3	27.8	1.3	2.3	14.2	64.4	35.0	99.4	3.5	2.5	48.6
2711	Newspapers	–	23	7	0.8	9.8	0.3	0.5	3.3	31.0	11.5	42.5	(D)	0.9	24.6
275	Commercial printing	E1	63	8	0.6	8.2	0.5	0.8	5.4	13.9	14.8	28.6	1.7	(NA)	(NA)
278	Blankbooks and bookbinding	–	7	6	0.4	4.5	0.3	0.7	3.3	9.5	4.0	13.5	0.6	0.7	8.6
28	Chemicals and allied products	–	29	7	4.6	88.6	2.5	5.5	42.3	233.9	141.8	359.1	18.6	4.9	148.1
30	Rubber and miscellaneous plastics products	–	17	12	1.9	18.5	1.5	2.8	12.3	41.0	30.4	70.6	1.9	1.6	24.4
32	Stone, clay, and glass products	E1	35	12	1.6	21.1	1.3	2.8	15.7	44.4	27.6	70.8	(D)	1.6	25.1
33	Primary metal industries	–	30	21	4.6	71.6	3.5	7.0	53.3	140.6	479.0	618.4	9.8	4.8	97.2
332	Iron and steel foundries	–	5	4	0.4	5.2	0.4	0.7	3.8	11.8	6.0	17.7	1.0	0.6	6.8
3357	Nonferrous wire drawing and insulating	–	3	3	0.4	4.1	0.3	0.6	3.0	5.4	10.1	16.2	(D)	(NA)	(NA)
336	Nonferrous foundries	–	11	9	1.1	13.7	0.8	1.5	10.0	24.0	21.8	45.1	(D)	1.2	16.3
3361	Aluminum foundries	–	7	6	0.9	12.3	0.7	1.3	9.0	21.9	19.3	40.6	(D)	(NA)	(NA)
34	Fabricated metal products	–	84	34	4.1	62.9	3.3	6.4	45.0	139.4	105.8	245.4	10.5	3.4	76.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Syracuse SMSA—Con.													
34	Fabricated metal products—Con.													
344	Fabricated structural metal products	E1	32	16	0.9	11.6	0.6	1.2	7.6	21.7	21.0	42.4	0.8	1.1	18.4
3444	Sheet metal work	–	12	6	0.4	5.7	0.3	0.5	3.8	9.5	9.2	18.3	0.3	0.4	6.1
349	Miscellaneous fabricated metal products	E1	13	5	0.4	5.4	0.3	0.6	3.6	10.1	7.3	17.7	0.6	(NA)	(NA)
35	Machinery, except electrical	–	134	47	9.0	134.7	6.1	12.1	84.9	333.1	359.8	683.6	14.7	9.3	236.6
3544	Special dies, tools, jigs, and fixtures	E2	25	8	0.4	5.2	0.3	0.7	4.0	8.0	3.0	10.9	0.6	0.4	6.7
356	General industrial machinery	–	21	15	2.0	26.9	1.3	2.7	16.9	47.4	47.4	94.6	3.7	2.1	32.2
3564	Blowers and fans	–	3	3	0.4	5.3	0.3	0.6	2.8	8.9	7.4	16.2	(D)	0.4	8.0
3569	General industrial machinery, n.e.c.	E1	4	4	0.3	3.0	0.1	0.3	1.4	11.1	13.0	24.2	0.5	(NA)	(NA)
36	Electric and electronic equipment	–	36	19	10.2	165.8	5.2	10.5	69.0	304.3	156.6	459.1	(D)	13.3	246.5
364	Electric lighting and wiring equipment	–	6	5	3.9	52.7	2.5	5.0	37.1	113.4	54.2	163.6	5.0	(NA)	(NA)
38	Instruments and related products	–	16	8	1.2	12.9	0.9	2.1	9.3	34.1	14.3	47.2	1.8	0.9	15.9
39	Miscellaneous manufacturing industries	–	33	6	0.8	8.7	0.6	1.1	5.1	16.6	12.7	29.2	0.5	1.3	17.4
399	Miscellaneous manufactures	–	21	6	0.8	8.2	0.6	1.0	4.8	15.5	12.0	27.3	(D)	1.2	16.7
--	Administrative and auxiliary	–	15	11	3.1	57.6	–	–	–	–	–	–	–	(NA)	(NA)
	Utica-Rome SMSA	–	**411**	**141**	**29.2**	**385.2**	**20.5**	**39.3**	**223.9**	**791.7**	**827.2**	**1 607.4**	**41.5**	**35.4**	**631.0**
202	Dairy products	E1	22	6	0.4	3.8	0.3	0.5	2.5	4.3	45.9	49.7	0.6	0.5	12.9
22	Textile mill products	–	12	6	1.0	9.1	0.9	1.8	6.6	24.8	33.1	57.2	1.1	1.2	10.3
23	Apparel and other textile products	–	15	7	0.8	6.2	0.7	1.2	5.1	9.0	4.1	12.9	0.1	1.7	16.6
24	Lumber and wood products	E2	32	5	0.4	3.3	0.3	0.6	2.4	5.7	7.1	12.6	0.6	0.4	3.8
25	Furniture and fixtures	–	11	5	0.9	9.5	0.7	1.3	6.6	16.8	12.8	29.8	1.4	0.9	15.3
26	Paper and allied products	–	13	6	0.6	8.5	0.5	1.1	5.9	16.5	26.2	42.8	(D)	0.7	12.2
27	Printing and publishing	E1	51	14	1.0	10.5	0.6	0.9	4.8	21.2	9.2	30.5	2.6	1.0	15.8
2711	Newspapers	–	11	5	0.5	5.8	0.2	0.3	1.8	14.2	2.6	16.8	1.6	(NA)	(NA)
275	Commercial printing	E3	31	6	0.3	3.2	0.3	0.5	2.1	4.8	4.7	9.5	0.9	0.3	3.6
31	Leather and leather products	–	8	4	1.5	10.6	1.3	2.1	6.6	21.3	14.0	35.0	0.7	1.6	18.0
32	Stone, clay, and glass products	–	22	4	0.5	4.6	0.4	0.7	2.9	10.1	6.7	16.4	0.7	0.5	6.9
33	Primary metal industries	–	15	12	4.2	61.6	3.2	6.4	44.8	124.8	295.0	414.7	9.9	4.3	96.9
335	Nonferrous rolling and drawing	–	8	7	3.8	54.9	2.8	5.7	40.3	108.5	268.4	371.9	8.2	(NA)	(NA)
3357	Nonferrous wire drawing and insulating	–	4	4	1.7	23.4	1.3	2.7	17.2	57.2	99.8	152.4	(D)	(NA)	(NA)
34	Fabricated metal products	–	31	12	4.3	58.8	3.5	7.1	44.6	137.6	79.7	213.6	6.9	3.8	73.0
344	Fabricated structural metal products	–	15	5	0.5	7.8	0.3	0.6	3.4	14.2	12.8	28.1	(D)	0.4	8.7
35	Machinery, except electrical	–	64	21	5.3	84.3	3.1	5.8	37.7	172.8	87.4	259.5	5.3	9.2	185.1
37	Transportation equipment	–	6	3	0.7	9.7	0.5	0.9	5.9	14.7	11.4	28.1	(D)	(NA)	(NA)
38	Instruments and related products	–	9	4	0.6	5.7	0.4	0.8	3.3	17.1	11.6	27.8	1.0	0.4	6.2
39	Miscellaneous manufacturing industries	–	25	10	2.6	30.4	2.2	4.1	23.4	64.4	58.4	119.9	2.6	3.1	51.4

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Albany County	–	286	101	16.8	246.9	11.1	22.3	148.0	543.7	606.8	1 153.2	74.6	20.7	377.6
20	Food and kindred products	–	40	18	2.6	35.6	1.5	3.4	19.3	71.7	174.7	244.8	(D)	3.4	91.7
22	Textile mill products	–	7	5	0.9	11.5	0.6	1.1	5.8	25.3	12.7	38.0	(D)	1.2	16.7
23	Apparel and other textile products	E1	17	9	1.1	8.3	0.9	1.8	5.9	15.8	23.4	38.8	(D)	1.4	13.1
26	Paper and allied products	–	6	4	0.8	12.9	0.6	1.4	9.3	24.5	33.5	57.5	(D)	0.9	15.4
27	Printing and publishing	–	71	12	2.6	37.7	1.0	1.9	13.1	87.1	27.2	113.4	(D)	2.9	54.6
28	Chemicals and allied products	–	14	5	0.5	9.8	0.3	0.7	5.0	63.7	77.2	139.7	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	20	7	2.6	41.6	1.9	3.8	28.9	82.3	74.0	164.6	(D)	4.7	99.6
34	Fabricated metal products	–	23	7	0.5	6.3	0.4	0.8	4.0	11.9	16.3	27.8	(D)	0.5	11.4
35	Machinery, except electrical	E1	17	8	0.6	8.2	0.4	0.8	4.5	14.9	10.5	25.2	(D)	0.5	4.1
	Allegany County	–	47	12	3.4	46.2	2.2	4.5	27.9	109.4	114.7	230.5	4.2	3.7	63.4
	Bronx County	–	1 136	395	33.1	352.3	25.6	47.6	222.4	712.7	639.2	1 351.1	33.8	41.2	573.0
20	Food and kindred products	E1	95	29	2.8	41.8	2.0	4.2	23.9	93.5	166.1	260.2	(D)	4.4	78.5
201	Meat products	E2	22	9	0.7	10.4	0.5	1.1	7.2	20.9	59.5	80.6	1.6	1.0	15.6
2013	Sausages and other prepared meats	E2	19	9	0.7	10.3	0.5	1.1	7.0	20.7	57.9	78.8	1.6	(NA)	(NA)
205	Bakery products	–	19	4	0.7	11.1	0.5	1.1	6.0	23.6	16.9	40.6	(D)	1.1	22.7
209	Miscellaneous foods and kindred products	–	18	7	0.7	9.4	0.5	1.1	5.9	26.2	46.4	73.0	(D)	1.2	21.8
239	Miscellaneous fabricated textile products	E1	47	13	1.2	9.2	1.0	1.9	6.8	14.6	18.3	33.1	0.3	1.7	16.7
25	Furniture and fixtures	E1	77	18	2.1	23.5	1.6	3.2	16.3	44.0	40.7	84.9	(D)	2.6	37.7
251	Household furniture	E3	34	6	0.6	5.3	0.5	0.9	3.5	8.5	10.3	18.8	0.4	0.8	8.5
26	Paper and allied products	E2	17	7	0.8	8.2	0.7	1.2	5.8	15.5	15.2	30.7	(D)	0.7	9.4
264	Miscellaneous converted paper products	E2	11	4	0.5	5.7	0.4	0.8	4.0	10.6	11.2	21.9	(D)	0.5	6.9
27	Printing and publishing	–	69	10	2.2	30.4	1.5	2.5	20.2	68.3	16.9	86.5	(D)	2.5	46.8
275	Commercial printing	–	42	2	1.2	19.6	1.0	1.7	15.8	44.9	9.8	56.0	(D)	1.4	28.6
30	Rubber and miscellaneous plastics products	E2	46	23	1.8	16.1	1.5	2.8	11.1	27.5	25.2	52.4	(D)	2.0	24.4
3079	Miscellaneous plastics products	E2	43	21	1.7	15.5	1.5	2.8	10.7	26.7	24.7	51.1	(D)	(NA)	(NA)
31	Leather and leather products	–	18	12	1.3	10.8	1.1	2.1	6.8	19.1	18.6	37.6	(D)	1.3	14.7
346	Metal forgings and stampings	–	15	7	1.5	17.5	1.1	2.3	10.9	42.9	41.8	84.7	1.8	0.6	7.0
347	Metal services, n.e.c.	E4	22	10	0.5	4.1	0.4	0.7	2.9	6.6	3.5	10.1	(D)	(NA)	(NA)
36	Electric and electronic equipment	–	39	17	2.5	34.7	1.6	3.2	17.0	77.4	47.6	126.9	(D)	3.8	67.5
39	Miscellaneous manufacturing industries	E1	78	29	3.0	25.4	2.5	4.4	16.4	58.0	52.1	107.8	(D)	2.6	37.0
--	Administrative and auxiliary	–	11	4	0.5	8.0	–	–	–	–	–	–	–	(NA)	(NA)
	Broome County	–	276	108	30.7	433.7	18.0	34.8	194.9	811.1	1 117.9	1 880.3	(D)	29.6	570.7
20	Food and kindred products	–	27	11	1.0	10.6	0.7	1.3	6.2	37.0	75.6	113.2	(D)	(NA)	(NA)
35	Machinery, except electrical	–	39	13	3.5	33.0	2.9	5.4	23.0	54.0	42.9	95.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Broome County—Con.													
--	Administrative and auxiliary --	-	11	9	0.7	8.9	-	-	-	-	-	-	-	(NA)	(NA)
	Cattaraugus County	-	132	55	9.1	108.8	6.5	12.5	70.9	280.0	236.9	514.7	10.2	8.6	137.8
20	Food and kindred products --	-	16	5	0.5	5.0	0.3	0.6	2.6	20.3	39.3	59.3	(D)	(NA)	(NA)
24	Lumber and wood products --	-	21	9	0.7	6.1	0.6	1.1	4.6	12.0	15.4	26.6	(D)	0.5	6.8
25	Furniture and fixtures	-	5	4	0.6	5.2	0.5	1.0	3.6	12.2	12.6	24.2	(D)	0.5	7.3
34	Fabricated metal products	-	15	7	0.8	8.3	0.7	1.5	7.0	18.0	21.1	39.0	(D)	0.7	9.9
342	Cutlery, hand tools, and hardware	-	5	4	0.7	6.8	0.6	1.3	5.9	13.4	19.4	32.8	(D)	0.5	6.7
36	Electric and electronic equipment	-	5	5	1.5	14.0	1.2	2.5	11.0	28.8	17.5	44.0	(D)	(NA)	(NA)
	Cayuga County	-	104	33	5.8	68.3	3.8	7.1	36.5	126.1	157.4	287.2	9.0	6.4	119.3
20	Food and kindred products --	E1	12	4	0.5	4.4	0.3	0.5	1.9	8.5	16.6	24.9	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	7	5	0.8	8.7	0.5	0.9	3.9	15.5	12.1	27.7	(D)	0.7	10.8
3079	Miscellaneous plastics products	-	7	5	0.8	8.7	0.5	0.9	3.9	15.5	12.1	27.7	(D)	(NA)	(NA)
	Chautauqua County	-	299	106	16.6	215.6	12.0	24.0	145.8	493.8	471.3	960.7	51.8	17.4	267.9
20	Food and kindred products --	-	41	19	2.4	28.4	1.6	3.4	17.3	150.9	194.7	346.8	(D)	2.2	36.1
203	Preserved fruits and vegetables	-	9	7	1.1	12.1	0.8	1.7	8.4	45.2	104.5	151.0	1.5	1.0	16.2
25	Furniture and fixtures	-	36	18	2.0	18.4	1.6	3.2	14.1	37.5	25.9	63.2	(D)	2.1	29.7
251	Household furniture	-	19	12	1.4	11.7	1.2	2.3	9.2	22.6	18.0	40.9	(D)	1.6	21.3
27	Printing and publishing	-	22	6	0.9	12.8	0.7	1.4	9.5	27.2	31.3	57.9	(D)	0.7	9.4
33	Primary metal industries	-	13	7	1.8	34.4	1.5	3.0	28.5	64.1	68.3	132.2	(D)	1.6	22.4
34	Fabricated metal products	-	39	16	2.6	32.3	2.1	4.1	24.1	64.5	32.8	96.1	(D)	3.6	59.7
342	Cutlery, hand tools, and hardware	-	7	4	1.3	16.0	1.1	2.1	12.5	35.5	14.8	49.4	(D)	2.3	38.6
344	Fabricated structural metal products	-	12	5	0.7	8.6	0.4	0.9	5.5	14.5	7.7	22.3	0.6	0.9	13.7
35	Machinery, except electrical --	-	50	16	2.7	39.0	1.8	3.6	24.3	67.5	34.8	99.8	(D)	3.1	51.7
36	Electric and electronic equipment	-	7	4	0.5	4.7	0.4	0.7	3.1	11.2	9.8	20.8	(D)	0.6	7.5
	Chemung County (Coextensive with Elmira, N.Y., SMSA; see table 6.)														
	Chenango County	-	84	27	5.6	66.0	3.9	7.2	37.4	117.2	114.2	231.8	13.6	5.5	115.5
	Clinton County	-	79	25	3.7	45.4	2.7	5.3	29.5	239.0	160.9	390.7	9.4	3.0	136.8
26	Paper and allied products	-	6	3	1.2	15.9	1.0	2.1	13.0	31.5	47.1	76.0	(D)	1.3	21.2
	Columbia County	-	86	31	2.7	27.6	2.1	4.0	17.6	67.1	64.3	130.0	3.5	2.9	50.2
	Cortland County	-	64	24	5.5	58.7	4.0	7.5	37.4	117.7	126.6	251.0	7.3	6.2	89.9
35	Machinery, except electrical --	-	8	5	2.9	33.0	2.1	4.1	21.5	82.0	39.7	123.3	(D)	(NA)	(NA)
	Delaware County	-	74	22	5.8	64.4	4.0	7.9	39.8	140.5	144.6	280.1	6.5	5.6	85.4
20	Food and kindred products --	E1	11	3	0.5	5.7	0.3	0.6	3.9	15.5	81.3	95.5	(D)	0.5	10.2

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Delaware County—Con.													
27	Printing and publishing	–	6	3	0.5	4.7	0.3	0.7	2.8	9.5	11.2	20.5	(D)	(NA)	(NA)
	Dutchess County (Coextensive with Poughkeepsie, N.Y., SMSA; see table 6.)														
	Erie County	–	**1 405**	**500**	**108.8**	**1 775.3**	**79.4**	**157.6**	**1 212.1**	**3 209.1**	**4 425.3**	**7 644.2**	**326.1**	**119.9**	**2 251.0**
20	Food and kindred products	–	145	59	7.6	100.3	5.1	10.3	62.7	360.6	603.4	962.9	(D)	9.5	235.0
201	Meat products	E2	25	9	0.8	10.1	0.5	1.1	6.2	17.1	64.6	81.7	0.6	(NA)	(NA)
2013	Sausages and other prepared meats	E1	16	8	0.7	8.9	0.5	0.9	5.4	17.0	47.2	64.0	0.5	(NA)	(NA)
202	Dairy products	–	26	8	0.8	11.3	0.4	0.8	4.5	30.7	122.3	152.2	(D)	(NA)	(NA)
26	Paper and allied products	–	41	29	2.8	33.2	2.2	4.0	22.0	58.3	66.5	125.7	(D)	2.6	45.8
264	Miscellaneous converted paper products	–	15	11	0.9	10.7	0.7	1.4	6.7	18.5	23.6	43.1	(D)	0.9	14.4
281	Industrial inorganic chemicals	–	10	5	0.5	8.7	0.3	0.7	5.2	33.0	23.8	56.3	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	62	17	2.4	33.2	1.8	3.6	22.9	64.9	66.0	129.3	(D)	2.5	38.2
34	Fabricated metal products	–	175	65	11.8	208.9	9.7	20.2	162.7	403.2	335.6	732.5	(D)	13.2	282.4
342	Cutlery, hand tools, and hardware	–	11	6	1.8	22.6	1.4	2.8	15.8	43.7	27.5	69.4	(D)	(NA)	(NA)
344	Fabricated structural metal products	–	62	23	2.3	32.9	1.6	3.2	21.2	65.7	53.9	119.8	(D)	1.7	31.7
39	Miscellaneous manufacturing industries	–	67	18	3.8	42.8	2.9	5.5	26.5	60.1	65.6	126.0	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	42	22	2.1	48.3	–	–	–	–	–	–	–	(NA)	(NA)
	Essex County	–	**61**	**9**	**1.6**	**23.2**	**1.3**	**2.5**	**17.3**	**63.6**	**62.7**	**124.0**	**5.7**	**1.6**	**31.3**
	Fulton County	–	**164**	**68**	**7.1**	**64.5**	**5.8**	**11.5**	**44.8**	**148.4**	**176.1**	**317.3**	**(D)**	**6.7**	**89.5**
22	Textile mill products	–	14	6	1.1	8.7	0.9	2.0	6.6	23.7	19.2	43.8	(D)	1.0	13.2
31	Leather and leather products	–	76	41	3.8	33.0	3.2	6.0	25.2	58.3	88.9	146.7	(D)	3.3	35.8
	Genesee County	–	**87**	**39**	**5.3**	**67.5**	**3.8**	**7.5**	**40.9**	**122.0**	**185.3**	**308.3**	**10.6**	**6.8**	**90.6**
20	Food and kindred products	–	13	8	0.6	6.9	0.5	1.1	4.5	18.8	79.1	96.7	(D)	0.6	9.7
32	Stone, clay, and glass products	–	7	5	1.3	16.6	0.7	1.6	8.7	28.7	20.3	46.6	(D)	1.4	26.9
35	Machinery, except electrical	–	16	4	0.8	12.0	0.6	1.0	7.1	20.6	25.1	46.9	(D)	0.8	14.9
	Greene County	–	**46**	**19**	**2.0**	**21.0**	**1.6**	**3.2**	**14.6**	**42.9**	**45.6**	**86.9**	**1.8**	**1.6**	**28.1**
	Herkimer County	–	**97**	**33**	**7.4**	**99.0**	**5.6**	**11.1**	**57.5**	**229.2**	**127.2**	**361.1**	**11.7**	**12.0**	**189.2**
	Jefferson County	–	**87**	**32**	**5.6**	**69.7**	**4.5**	**8.8**	**51.6**	**154.5**	**274.6**	**432.5**	**7.6**	**6.3**	**100.4**
26	Paper and allied products	–	9	7	1.4	21.6	1.1	2.5	17.5	49.1	97.7	146.7	(D)	1.4	30.6
36	Electric and electronic equipment	–	5	3	0.9	7.8	0.7	1.3	5.7	12.5	13.1	25.4	(D)	(NA)	(NA)
	Kings County	–	**4 201**	**1 466**	**118.4**	**1 192.0**	96.3	**176.7**	**825.0**	**2 621.3**	**2 793.9**	**5 358.7**	**116.7**	**165.6**	**2 536.3**
20	Food and kindred products	E1	270	91	9.6	128.2	6.6	12.9	77.3	354.7	735.7	1 088.1	30.4	17.8	485.5
201	Meat products	E2	36	10	0.9	15.1	0.8	1.7	12.8	29.7	100.6	131.4	1.0	1.9	37.1
2013	Sausages and other prepared meats	–	25	8	0.8	13.1	0.7	1.4	11.1	25.5	82.7	109.4	(D)	(NA)	(NA)
203	Preserved fruits and vegetables	E2	23	14	0.6	6.1	0.4	0.8	3.6	12.4	25.0	37.4	0.7	0.6	12.3
205	Bakery products	E2	78	20	3.0	37.6	1.8	3.3	20.4	69.9	58.3	128.2	(D)	3.3	55.7

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
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		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Kings County—Con.													
20	Food and kindred products—Con.													
206	Sugar and confectionery products	–	26	13	2.4	32.3	1.7	3.4	20.4	111.5	265.7	376.2	(D)	2.7	69.2
208	Beverages	E1	32	8	1.0	14.8	0.6	1.2	7.7	48.2	59.1	106.9	1.0	6.5	221.2
209	Miscellaneous foods and kindred products	–	51	20	1.2	14.5	0.9	1.8	8.3	60.0	176.1	234.4	1.9	1.8	55.4
2099	Food preparations, n.e.c.	–	26	8	0.6	7.3	0.4	0.9	4.0	18.3	40.4	58.1	1.0	(NA)	(NA)
22	Textile mill products	E4	375	158	9.4	78.9	8.5	16.2	63.1	130.7	140.6	271.2	6.2	14.9	172.5
23	Apparel and other textile products	E2	1 056	474	29.0	210.8	25.8	44.4	163.8	383.3	337.0	719.1	10.7	39.8	363.9
2321	Men's and boys' shirts and nightwear	E1	18	9	0.7	4.7	0.6	1.0	3.6	8.6	13.7	22.4	0.1	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c.	E1	25	12	0.9	6.9	0.8	1.6	5.2	12.3	10.9	23.5	(D)	(NA)	(NA)
2337	Women's and misses' suits and coats	E1	112	73	3.5	26.1	3.3	5.5	22.2	42.3	20.2	62.2	0.4	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	E2	78	37	2.6	18.5	2.3	3.6	13.6	41.9	46.7	88.5	0.7	(NA)	(NA)
234	Women's and children's undergarments	E1	59	34	1.9	13.3	1.7	3.2	10.3	22.3	22.2	46.6	0.3	2.4	27.1
2341	Women's and children's underwear	E2	46	27	1.5	9.7	1.3	2.5	8.0	17.2	7.5	24.5	(D)	(NA)	(NA)
2361	Children's dresses and blouses	E1	21	11	0.9	6.5	0.8	1.4	5.1	12.5	13.4	24.9	0.3	(NA)	(NA)
2392	House furnishings, n.e.c.	E2	77	22	2.0	15.8	1.6	2.9	10.0	25.9	46.1	71.9	0.7	(NA)	(NA)
2395	Pleating and stitching	E3	54	20	1.0	9.1	0.9	1.5	6.2	15.6	22.9	38.4	0.4	(NA)	(NA)
24	Lumber and wood products	E3	100	15	1.1	10.5	1.0	1.8	8.1	18.7	15.2	33.8	1.3	2.0	22.1
25	Furniture and fixtures	E2	224	63	4.6	47.7	3.7	7.1	32.9	84.7	71.5	154.8	4.7	6.8	90.0
251	Household furniture	E4	123	27	1.7	14.9	1.4	2.7	10.8	27.0	29.0	55.6	(D)	3.2	34.5
2511	Wood household furniture	E1	47	12	0.7	5.9	0.6	1.2	4.6	10.8	9.8	20.3	0.3	(NA)	(NA)
252	Office furniture	E2	14	9	1.1	11.9	0.8	1.6	7.2	23.3	13.0	35.5	(D)	0.9	17.6
2522	Metal office furniture	E1	8	7	1.0	10.6	0.7	1.4	6.2	21.2	12.0	32.2	(D)	(NA)	(NA)
254	Partitions and fixtures	E1	67	22	1.6	18.7	1.3	2.5	13.4	28.8	24.5	53.4	(D)	2.2	33.2
2541	Wood partitions and fixtures	E1	41	14	1.1	13.2	0.9	1.6	9.6	19.6	15.8	35.4	(D)	(NA)	(NA)
2542	Metal partitions and fixtures	E2	26	8	0.5	5.5	0.4	0.9	3.8	9.3	8.8	18.0	0.2	(NA)	(NA)
26	Paper and allied products	E2	137	64	5.2	59.0	4.1	8.1	40.1	117.4	141.1	257.9	7.9	7.7	108.9
2645	Die-cut paper and board	E1	19	10	0.9	10.9	0.7	1.4	7.6	23.5	26.1	49.3	0.4	(NA)	(NA)
2651	Folding paperboard boxes	E4	19	8	0.5	6.1	0.4	0.8	4.5	10.7	8.3	19.0	0.3	(NA)	(NA)
2652	Setup paperboard boxes	–	12	10	0.6	4.6	0.5	0.9	3.3	7.5	5.8	13.2	0.1	(NA)	(NA)
2653	Corrugated and solid fiber boxes	E3	18	10	0.7	8.6	0.6	1.1	5.5	14.2	18.5	32.6	(D)	(NA)	(NA)
27	Printing and publishing	–	272	47	5.2	68.6	4.0	7.2	51.6	149.6	97.0	245.6	3.8	7.9	138.2
275	Commercial printing	E2	172	21	1.7	21.9	1.4	2.6	15.7	39.3	32.3	71.4	2.3	1.9	30.9
2752	Commercial printing, lithographic	–	50	8	0.6	9.6	0.5	1.0	7.2	15.6	13.4	29.1	(D)	(NA)	(NA)
278	Blankbooks and bookbinding	–	32	12	1.0	8.9	0.9	1.7	6.9	17.7	12.0	29.7	0.6	1.9	30.2
2789	Bookbinding and related work	–	23	6	0.5	5.6	0.5	1.0	4.6	11.4	7.5	18.9	0.4	(NA)	(NA)
28	Chemicals and allied products	–	142	41	5.2	64.3	4.1	7.7	41.3	312.5	191.2	495.5	7.4	6.0	280.4
284	Soaps, cleaners, and toilet goods	E1	53	15	1.6	16.0	1.1	2.2	8.0	45.9	45.8	91.1	(D)	1.4	26.8
2844	Toilet preparations	E1	17	5	0.8	7.1	0.6	1.1	3.2	21.7	15.8	37.1	(D)	(NA)	(NA)
2851	Paints and allied products	E1	40	11	0.7	9.0	0.5	0.9	4.9	29.8	32.0	61.0	0.6	(NA)	(NA)
286	Industrial organic chemicals	–	7	4	0.8	11.5	0.5	1.2	5.8	43.0	46.0	86.9	1.6	0.5	10.3
30	Rubber and miscellaneous plastics products	E1	148	48	4.2	45.7	3.4	6.5	30.9	90.3	118.6	207.4	10.3	4.8	74.9
3079	Miscellaneous plastics products	E1	133	47	4.1	43.9	3.3	6.3	29.7	86.0	113.9	198.4	10.2	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Kings County—Con.													
31	Leather and leather products	E3	89	43	4.3	30.8	3.9	6.5	23.1	58.2	51.2	108.9	(D)	5.7	51.6
314	Footwear, except rubber	–	16	8	1.0	6.9	0.9	1.5	5.3	13.1	11.7	24.7	(D)	2.2	19.1
3161	Luggage	E3	15	9	1.1	8.6	1.0	1.6	6.4	17.9	14.9	32.6	(D)	(NA)	(NA)
317	Handbags and other personal leather goods	E3	35	21	2.0	13.0	1.8	3.0	9.8	23.1	19.5	42.3	(D)	2.3	21.2
3171	Women's handbags and purses	E3	26	16	1.5	10.1	1.4	2.5	7.9	16.8	16.1	32.9	(D)	(NA)	(NA)
32	Stone, clay, and glass products	E2	95	18	1.8	19.8	1.5	2.9	14.0	42.2	41.7	83.3	4.8	2.6	38.8
3231	Products of purchased glass	E2	39	12	1.1	11.7	0.9	1.7	8.2	24.3	21.9	46.0	3.5	(NA)	(NA)
33	Primary metal industries	E1	56	24	1.9	23.5	1.4	2.7	15.7	42.4	112.8	156.9	1.5	2.4	40.8
34	Fabricated metal products	E2	387	113	9.1	99.4	7.3	13.9	68.6	196.8	162.2	353.8	8.5	12.5	184.8
342	Cutlery, hand tools, and hardware	–	21	8	1.4	16.6	1.1	2.0	11.6	44.3	23.0	65.0	(D)	1.8	32.3
3429	Hardware, n.e.c.	–	17	6	1.2	15.0	0.9	1.7	10.5	39.7	19.8	57.7	1.9	(NA)	(NA)
344	Fabricated structural metal products	E2	118	21	2.2	24.4	1.6	3.1	16.6	41.5	38.5	80.3	(D)	3.6	51.6
346	Metal forgings and stampings	E1	46	22	1.2	13.9	1.0	2.0	9.6	27.0	27.7	54.1	(D)	1.9	27.4
347	Metal services, n.e.c.	E2	74	23	1.8	15.1	1.5	2.8	11.0	27.3	13.1	40.1	(D)	1.6	18.4
3471	Plating and polishing	E2	65	22	1.6	14.1	1.4	2.7	10.3	26.0	12.2	37.8	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	E1	100	28	2.1	23.0	1.6	3.1	15.1	44.0	42.3	84.5	(D)	2.7	38.4
3499	Fabricated metal products, n.e.c.	E3	55	13	0.9	8.6	0.8	1.4	5.9	15.4	12.8	27.8	(D)	(NA)	(NA)
35	Machinery, except electrical	E1	225	42	4.8	63.3	3.3	6.0	34.8	124.6	127.5	248.6	4.4	5.8	96.3
354	Metalworking machinery	E3	59	7	0.5	6.4	0.4	0.7	4.3	10.6	5.0	15.4	(D)	(NA)	(NA)
355	Special industry machinery	E1	31	10	1.3	19.0	0.8	1.5	9.8	32.2	23.9	54.1	1.0	1.1	20.6
356	General industrial machinery	E2	31	11	0.6	7.8	0.4	0.8	5.0	16.1	11.5	26.7	0.8	0.8	14.3
36	Electric and electronic equipment	E1	160	54	8.2	83.1	6.0	11.1	52.5	211.9	182.0	361.7	5.0	11.2	167.1
364	Electric lighting and wiring equipment	–	66	25	4.6	48.1	3.5	6.4	30.2	115.7	95.0	198.6	3.2	5.5	84.5
3645	Residential lighting fixtures	E1	47	14	1.0	10.4	0.8	1.5	7.0	21.9	17.5	40.1	0.4	(NA)	(NA)
365	Radio and TV receiving equipment	–	12	5	1.0	8.4	0.7	1.4	5.3	39.0	46.7	68.2	0.3	1.6	17.2
369	Miscellaneous electrical equipment and supplies	E4	20	8	0.6	5.8	0.5	0.8	4.0	14.8	10.9	24.3	(D)	0.6	10.9
39	Miscellaneous manufacturing industries	E1	324	117	8.0	71.9	6.7	11.7	49.0	159.8	148.9	307.4	4.9	11.9	145.3
394	Toys and sporting goods	E1	91	37	2.9	21.5	2.6	4.0	14.3	58.8	58.2	116.2	1.5	5.7	62.8
3944	Games, toys, and children's vehicles	E2	18	9	0.6	5.0	0.5	0.8	3.3	15.5	12.6	28.0	0.4	(NA)	(NA)
395	Pens, pencils, office and art supplies	E3	26	9	0.6	5.7	0.5	1.0	4.0	14.7	13.2	27.8	0.3	0.8	11.1
3964	Needles, pins, and fasteners	E1	12	4	0.5	3.6	0.4	0.8	2.9	7.0	4.9	11.9	0.2	(NA)	(NA)
399	Miscellaneous manufactures	E1	139	50	3.0	32.4	2.5	4.6	22.3	61.4	48.1	109.2	2.5	3.8	46.5
3993	Signs and advertising displays	–	32	9	0.7	7.8	0.6	1.2	5.4	12.0	7.7	19.7	0.5	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	E1	89	31	1.8	19.3	1.5	2.7	13.4	37.2	26.9	63.8	0.7	(NA)	(NA)
--	Administrative and auxiliary	–	13	7	0.6	8.4	–	–	–	–	–	–	–	(NA)	(NA)
	Lewis County	–	34	12	1.7	20.7	1.3	2.7	14.8	51.8	104.8	156.8	4.7	2.0	30.7
26	Paper and allied products	–	5	5	0.8	11.5	0.6	1.2	8.1	22.1	41.7	63.8	(D)	0.9	17.2
	Livingston County	–	56	25	3.9	46.1	3.1	6.0	32.1	158.3	106.2	227.0	4.9	4.3	107.0
27	Printing and publishing	–	13	6	0.6	6.6	0.4	0.8	3.7	12.5	10.4	22.9	0.7	0.5	8.3
	Madison County	–	64	20	1.7	20.1	1.1	2.1	10.4	34.0	88.3	121.5	3.2	2.0	28.4

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Monroe County	-	**968**	**342**	**126.2**	**2 182.5**	**68.1**	**131.6**	**994.0**	**6 171.1**	**2 555.8**	**8 689.8**	**309.2**	**124.5**	**4 016.1**
20	Food and kindred products	-	69	28	3.7	49.6	2.3	4.7	28.5	188.5	268.7	457.3	12.6	5.1	157.2
208	Beverages	-	13	5	1.3	19.4	0.6	1.4	9.2	50.7	94.9	146.2	8.2	1.1	36.3
23	Apparel and other textile products	-	23	6	2.9	24.6	2.6	4.2	20.2	40.6	17.2	57.6	(D)	3.9	49.7
265	Paperboard containers and boxes	-	11	11	0.6	7.8	0.5	1.0	5.0	14.5	21.3	35.9	0.8	0.7	10.7
27	Printing and publishing	-	172	38	5.7	83.8	3.3	5.7	42.6	166.6	80.6	243.8	12.8	5.8	113.3
275	Commercial printing	-	102	18	1.8	32.2	1.3	2.4	19.7	50.5	46.1	95.2	4.1	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	28	11	0.9	10.7	0.7	1.3	7.2	22.7	13.0	35.5	1.8	0.8	12.2
33	Primary metal industries	E1	19	8	0.5	7.2	0.4	0.8	4.7	15.1	27.0	41.9	1.1	(NA)	(NA)
34	Fabricated metal products	-	124	53	5.5	76.7	4.2	8.5	50.5	158.6	135.8	292.0	15.0	5.8	102.4
3451	Screw machine products	-	26	15	0.9	11.7	0.7	1.6	8.7	20.2	13.3	33.5	(D)	(NA)	(NA)
35	Machinery, except electrical	-	200	60	14.5	260.1	10.3	21.3	171.5	508.7	248.4	729.5	54.3	12.4	275.6
3544	Special dies, tools, jigs, and fixtures	E3	62	19	0.9	12.8	0.8	1.6	9.5	19.8	7.4	27.8	(D)	(NA)	(NA)
355	Special industry machinery	-	20	8	1.1	17.5	0.7	1.3	9.3	36.1	29.8	60.0	0.6	(NA)	(NA)
36	Electric and electronic equipment	-	53	22	10.6	175.5	6.9	13.1	100.3	370.8	198.6	568.0	16.0	11.1	223.6
367	Electronic components and accessories	E1	21	5	0.6	6.1	0.5	1.0	3.8	15.9	6.7	22.1	1.2	0.6	7.9
399	Miscellaneous manufactures	-	24	6	0.5	5.6	0.4	0.7	3.5	9.8	6.3	16.2	(D)	(NA)	(NA)
--	Administrative and auxiliary	-	25	16	9.7	215.3	-	-	-	-	-	-	-	(NA)	(NA)
	Montgomery County	-	**89**	**47**	**7.7**	**74.7**	**5.5**	**10.3**	**45.0**	**144.4**	**189.1**	**331.5**	**16.8**	**7.8**	**115.2**
39	Miscellaneous manufacturing industries	-	10	7	1.2	9.9	1.0	2.0	6.5	25.2	28.9	52.5	(D)	(NA)	(NA)
	Nassau County	-	**2 448**	636	**92.1**	**1 338.9**	**56.3**	**111.6**	**661.4**	**2 702.6**	**2 084.1**	**4 773.4**	**117.0**	**93.4**	**1 618.5**
20	Food and kindred products	E2	69	11	1.0	10.6	0.6	1.2	5.8	28.0	42.2	70.1	1.4	1.5	45.2
22	Textile mill products	E2	57	17	1.8	19.6	1.5	2.9	12.0	38.1	63.6	99.6	1.4	2.1	51.8
23	Apparel and other textile products	E1	185	67	4.2	31.9	3.7	6.5	24.1	62.4	76.8	140.3	1.9	4.4	56.6
2339	Women's and misses' outerwear, n.e.c.	-	14	9	0.8	7.5	0.7	1.3	5.0	16.6	38.4	56.1	0.3	(NA)	(NA)
25	Furniture and fixtures	E2	73	14	1.1	10.9	0.8	1.7	7.4	21.3	14.8	35.9	(D)	1.6	21.8
251	Household furniture	E3	36	5	0.5	4.3	0.4	0.8	3.1	9.1	6.4	15.4	(D)	(NA)	(NA)
254	Partitions and fixtures	E1	21	7	0.5	5.4	0.3	0.7	3.4	10.0	6.6	16.6	(D)	(NA)	(NA)
26	Paper and allied products	E1	56	26	3.3	38.0	2.5	4.9	25.1	72.0	86.7	158.2	5.7	2.8	39.3
264	Miscellaneous converted paper products	E1	43	20	2.2	23.6	1.7	3.3	15.3	48.3	60.4	108.0	4.8	1.9	27.0
2649	Converted paper products, n.e.c.	E1	14	6	0.5	5.8	0.4	0.8	3.9	13.9	18.2	31.6	1.0	(NA)	(NA)
265	Paperboard containers and boxes	-	13	6	1.1	14.4	0.9	1.5	9.8	23.7	26.3	50.2	1.0	0.9	12.2
2653	Corrugated and solid fiber boxes	-	7	3	0.5	7.1	0.4	0.8	4.9	11.3	14.1	25.2	(D)	(NA)	(NA)
273	Books	E2	51	15	1.0	10.9	0.4	0.9	4.1	31.7	21.9	52.2	(D)	(NA)	(NA)
2731	Book publishing	E2	35	10	0.7	7.6	0.2	0.4	1.5	25.2	17.2	41.4	(D)	(NA)	(NA)
2741	Miscellaneous publishing	-	34	9	0.7	7.1	0.4	0.8	2.7	16.6	7.7	24.2	(D)	(NA)	(NA)
275	Commercial printing	E1	264	31	2.7	36.4	2.2	4.3	27.3	69.4	54.9	125.1	3.3	2.7	43.5

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Nassau County—Con.													
275	Commercial printing—Con.													
2751	Commercial printing, letterpress	E2	135	12	0.9	10.6	0.7	1.3	7.1	19.5	17.0	36.4	0.9	(NA)	(NA)
2752	Commercial printing, lithographic	E1	119	18	1.7	24.7	1.5	2.8	19.5	47.4	36.9	85.2	2.4	(NA)	(NA)
28	Chemicals and allied products	–	74	29	3.3	44.9	1.8	3.2	18.7	143.9	169.4	308.5	(D)	3.1	97.2
283	Drugs	–	22	14	1.9	24.6	0.8	1.5	7.9	68.1	52.0	119.6	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	109	33	2.5	26.9	2.0	3.9	16.9	62.0	72.5	134.3	3.6	2.4	40.2
3079	Miscellaneous plastics products	E1	100	33	2.4	26.4	1.9	3.8	16.5	60.8	71.4	132.1	3.5	(NA)	(NA)
33	Primary metal industries	E2	33	12	1.1	14.4	0.9	1.8	9.7	31.1	54.3	84.2	1.7	1.0	19.3
34	Fabricated metal products	E1	245	73	6.6	81.9	5.2	10.4	55.1	171.1	151.4	320.9	14.3	7.1	120.0
35	Machinery, except electrical	E1	281	46	4.3	55.9	2.9	5.7	31.5	122.1	89.6	209.2	6.1	6.0	109.9
3573	Electronic computing equipment	–	9	5	0.5	6.1	0.3	0.7	2.8	11.0	6.6	17.2	0.5	(NA)	(NA)
36	Electric and electronic equipment	–	211	80	13.5	176.0	7.7	15.3	82.4	381.6	231.2	623.5	18.2	14.0	273.5
364	Electric lighting and wiring equipment	E1	39	8	1.1	11.0	0.8	1.5	6.4	30.7	30.7	61.1	2.2	1.0	18.8
365	Radio and TV receiving equipment	–	16	8	1.0	9.9	0.6	1.2	5.2	22.4	19.6	42.1	0.7	(NA)	(NA)
367	Electronic components and accessories	–	73	25	3.6	43.1	2.4	4.7	22.0	88.8	51.8	150.1	6.7	4.1	72.9
3679	Electronic components, n.e.c.	E1	50	14	2.1	25.9	1.4	2.7	13.6	52.2	24.1	75.1	3.7	(NA)	(NA)
38	Instruments and related products	–	120	51	6.0	80.1	3.4	6.9	36.7	183.5	121.7	299.7	5.3	(NA)	(NA)
39	Miscellaneous manufacturing industries	E1	184	32	4.0	40.7	2.7	4.8	21.6	81.0	99.3	177.6	2.5	4.8	72.8
394	Toys and sporting goods	E1	20	4	1.6	15.7	0.9	1.7	7.4	29.6	30.0	59.2	0.5	2.2	35.4
399	Miscellaneous manufactures	E2	100	13	1.1	11.1	0.8	1.5	6.9	24.9	20.5	44.9	1.1	1.2	16.8
--	Administrative and auxiliary	–	48	24	2.4	48.0	–	–	–	–	–	–	–	(NA)	(NA)
	New York County	–	**13 289**	**3 800**	**359.4**	**4 970.4**	**191.3**	**344.8**	**1 637.0**	**8 834.8**	**9 034.3**	**17 775.6**	**303.7**	**431.2**	**6 393.3**
201	Meat products	E2	32	10	0.5	8.2	0.4	0.8	5.3	18.9	46.7	65.6	(D)	0.7	14.8
205	Bakery products	E1	43	8	1.1	14.6	0.6	1.1	6.4	23.8	21.0	45.4	0.5	1.7	22.8
23	Apparel and other textile products	E1	5 096	1 920	131.3	1 136.3	104.1	183.0	707.3	2 756.1	4 284.0	6 971.7	51.6	143.9	2 171.2
232	Men's and boys' furnishings	E1	330	131	15.0	117.9	11.2	19.9	70.4	303.0	554.8	829.1	6.2	13.7	243.2
2321	Men's and boys' shirts and nightwear	–	103	45	3.5	32.3	2.7	4.9	14.7	126.2	302.7	396.8	1.0	(NA)	(NA)
2327	Men's and boys' separate trousers	E1	78	21	6.9	48.1	4.7	8.0	31.3	101.9	154.7	258.9	3.4	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c.	E1	57	25	2.2	16.0	1.9	3.5	10.0	31.7	54.7	87.7	0.7	(NA)	(NA)
233	Women's and misses' outerwear	E2	2 552	1 112	68.2	586.7	53.6	93.4	355.8	1 534.7	2 242.5	3 751.0	28.8	66.4	1 021.6
2331	Women's and misses' blouses and waists	–	231	118	8.1	72.1	6.3	10.6	41.3	280.7	381.1	659.5	5.1	(NA)	(NA)
2335	Women's and misses' dresses	E2	1 487	573	34.3	285.2	27.2	47.6	178.3	648.8	874.8	1 514.5	13.2	(NA)	(NA)
2337	Women's and misses' suits and coats	E2	425	207	12.7	122.4	9.7	17.6	72.0	302.3	494.0	793.9	4.0	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	E2	409	214	13.1	107.0	10.3	17.6	64.2	303.0	492.6	783.1	6.5	(NA)	(NA)
234	Women's and children's undergarments	–	219	100	7.4	64.0	5.5	9.5	31.6	161.0	274.0	431.5	1.4	10.0	166.0
2341	Women's and children's underwear	–	180	80	5.4	48.3	4.0	6.8	24.2	122.3	233.8	353.6	1.0	(NA)	(NA)
2342	Brassieres and allied garments	–	39	20	2.0	15.7	1.5	2.7	7.4	38.6	40.2	77.9	0.3	(NA)	(NA)
235	Hats, caps, and millinery	E3	149	44	2.7	20.4	2.3	4.1	14.4	35.6	38.7	73.9	0.6	3.2	32.6
236	Children's outerwear	E1	209	109	7.1	57.1	5.7	10.6	37.0	126.8	205.3	332.0	1.5	10.7	162.0
2361	Children's dresses and blouses	E1	108	63	3.6	31.2	2.8	5.5	19.2	77.1	120.9	196.1	0.6	(NA)	(NA)
2363	Children's coats and suits	E1	33	15	1.0	9.0	0.9	1.5	6.1	19.5	33.2	52.0	0.4	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York County—Con.														
23	Apparel and other textile products—Con.														
236	Children's outerwear—Con.														
2369	Children's outerwear, n.e.c.	E2	68	31	2.4	16.8	2.0	3.6	11.7	30.3	51.3	83.9	0.5	(NA)	(NA)
2371	Fur goods	E2	516	39	3.4	44.7	2.6	4.2	31.2	101.1	248.8	347.4	0.4	(NA)	(NA)
238	Miscellaneous apparel and accessories	E1	367	142	8.6	73.6	7.2	12.6	48.4	155.0	224.5	374.9	5.3	11.7	162.6
2384	Robes and dressing gowns	E1	41	23	1.9	15.1	1.6	2.8	10.7	41.4	67.2	106.9	1.1	(NA)	(NA)
2386	Leather and sheep lined clothing	E1	105	33	1.9	17.6	1.7	2.9	12.9	29.5	55.1	83.7	(D)	(NA)	(NA)
2387	Apparel belts	E1	129	50	3.0	23.9	2.5	4.2	15.1	45.5	45.1	89.1	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	E1	631	190	13.3	117.8	11.1	20.1	79.5	241.1	366.2	605.5	5.3	15.4	188.4
2391	Curtains and draperies	–	83	25	1.7	15.8	1.4	2.6	10.9	40.5	94.9	134.8	0.4	(NA)	(NA)
2392	House furnishings, n.e.c.	E1	106	41	3.6	27.8	3.0	5.6	17.6	61.4	131.5	192.1	1.9	(NA)	(NA)
2395	Pleating and stitching	E2	160	46	3.1	25.6	2.7	4.5	17.6	50.9	45.4	95.4	1.1	(NA)	(NA)
2399	Fabricated textile products, n.e.c.	E3	70	19	1.2	10.3	1.0	1.8	6.9	20.5	21.4	41.6	0.5	(NA)	(NA)
25	Furniture and fixtures	E3	228	29	2.7	26.8	2.2	4.2	19.5	50.2	47.7	97.1	2.4	2.9	36.5
251	Household furniture	E5	140	18	1.5	13.7	1.3	2.4	10.3	24.5	21.1	45.2	(D)	1.7	20.6
2511	Wood household furniture	E5	75	10	0.8	6.8	0.7	1.3	5.1	12.2	11.2	23.1	1.3	(NA)	(NA)
2512	Upholstered household furniture	E5	44	6	0.6	5.4	0.5	0.8	4.0	8.6	6.4	15.0	(D)	(NA)	(NA)
254	Partitions and fixtures	E1	42	6	0.7	7.9	0.5	1.0	5.5	16.3	18.2	34.3	(D)	0.8	10.6
2542	Metal partitions and fixtures	–	24	4	0.5	5.4	0.4	0.7	3.7	12.3	15.6	27.6	(D)	(NA)	(NA)
26	Paper and allied products	E4	132	42	2.9	34.8	2.3	4.5	23.5	67.8	67.8	135.0	8.1	3.5	56.6
264	Miscellaneous converted paper products	E4	102	27	2.1	25.0	1.6	3.3	16.7	47.8	50.1	97.5	5.0	2.3	31.7
2649	Converted paper products, n.e.c.	E6	31	8	0.8	9.6	0.7	1.3	6.4	17.5	15.4	32.1	(D)	(NA)	(NA)
27	Printing and publishing	–	3 242	644	87.7	1 433.1	31.8	57.8	471.3	4 316.1	2 376.6	6 699.6	101.2	95.7	2 799.1
2711	Newspapers	–	98	26	12.0	246.8	6.9	10.7	129.1	407.2	195.5	602.5	20.8	(NA)	(NA)
273	Books	–	373	113	19.7	297.1	2.3	4.9	27.7	1 291.7	642.0	1 955.2	25.4	21.5	849.5
2731	Book publishing	–	287	89	18.0	273.4	1.1	2.6	12.7	1 248.6	613.4	1 883.5	(D)	(NA)	(NA)
2732	Book printing	E1	86	24	1.7	23.7	1.2	2.4	15.0	43.1	28.6	71.7	(D)	(NA)	(NA)
2741	Miscellaneous publishing	–	312	36	5.9	76.3	1.1	2.2	9.7	199.1	81.4	280.3	3.3	(NA)	(NA)
275	Commercial printing	E2	1 456	208	17.1	258.7	12.6	23.4	171.1	469.3	339.3	805.7	19.0	20.0	410.9
2751	Commercial printing, letterpress	E3	752	78	5.9	76.7	4.5	8.2	51.0	137.5	95.6	232.6	6.7	(NA)	(NA)
2752	Commercial printing, lithographic	E1	629	120	10.3	169.8	7.4	14.0	111.5	309.1	234.7	541.5	10.9	(NA)	(NA)
2753	Engraving and plate printing	E1	48	9	0.8	9.4	0.5	0.9	6.4	17.5	4.9	22.2	0.8	(NA)	(NA)
278	Blankbooks and bookbinding	E2	179	42	2.8	31.5	2.4	4.6	24.3	53.8	18.7	72.2	1.6	4.1	57.4
2782	Blankbooks and looseleaf binders	E2	33	12	0.6	6.0	0.5	1.0	4.3	11.5	10.1	21.5	0.4	(NA)	(NA)
2789	Bookbinding and related work	E2	146	30	2.2	25.5	1.9	3.6	20.0	42.3	8.6	50.7	1.2	(NA)	(NA)
28	Chemicals and allied products	E2	128	22	1.7	25.3	1.0	2.1	11.7	87.6	76.0	162.6	(D)	2.6	66.8
3079	Miscellaneous plastics products	E5	78	14	0.9	8.5	0.8	1.4	5.1	21.2	17.1	38.2	(D)	(NA)	(NA)
31	Leather and leather products	E2	332	126	9.6	75.4	8.2	15.1	52.3	157.4	149.9	305.7	(D)	12.4	126.6
3142	House slippers	E2	7	4	0.5	3.0	0.4	0.7	2.4	4.6	3.5	8.2	(D)	(NA)	(NA)
3161	Luggage	E3	33	14	0.9	7.2	0.7	1.3	4.8	12.2	8.9	21.1	(D)	(NA)	(NA)
317	Handbags and other personal leather goods	E1	193	87	6.2	49.0	5.3	10.1	33.0	111.1	108.7	218.8	(D)	7.6	73.6
3171	Women's handbags and purses	E1	140	64	4.8	37.8	4.2	7.9	26.4	89.0	85.5	174.1	(D)	(NA)	(NA)
3172	Personal leather goods	E2	53	23	1.4	11.2	1.1	2.2	6.6	22.1	23.2	44.7	(D)	(NA)	(NA)
3199	Leather goods, n.e.c.	E2	41	8	0.7	5.8	0.6	1.1	3.7	10.5	10.7	20.6	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York County—Con.													
32	Stone, clay, and glass products	E3	66	10	0.9	10.9	0.7	1.4	7.8	23.0	17.2	40.0	0.9	1.0	16.2
35	Machinery, except electrical	E3	220	24	2.0	26.1	1.4	2.7	15.0	43.5	36.1	80.0	2.2	3.3	55.4
354	Metalworking machinery	E3	58	6	0.5	6.3	0.4	0.8	4.5	9.3	4.1	14.1	0.5	0.9	16.0
355	Special industry machinery	E3	64	11	0.6	8.5	0.4	0.8	4.6	14.2	12.3	26.4	0.5	0.9	15.5
36	Electric and electronic equipment	E2	263	56	4.6	53.2	3.2	6.0	28.5	170.1	92.5	260.5	3.5	4.3	89.8
363	Household appliances	E5	33	11	0.5	6.2	0.4	0.7	4.1	11.4	7.0	18.5	0.4	0.5	9.6
364	Electric lighting and wiring equipment	E5	46	10	0.6	7.0	0.5	0.9	4.3	13.2	13.0	26.3	0.3	0.8	11.6
3652	Phonograph records and prerecorded tape	E1	105	18	1.7	20.4	1.2	2.2	9.9	105.4	45.4	150.1	(D)	(NA)	(NA)
367	Electronic components and accessories	E3	35	6	1.1	10.9	0.8	1.3	5.5	19.5	10.7	28.8	0.8	0.8	11.8
38	Instruments and related products	E3	149	42	3.0	32.4	2.2	4.2	18.0	65.3	56.1	121.4	2.2	4.2	68.4
39	Miscellaneous manufacturing industries	E1	1 806	332	27.1	290.2	20.2	36.7	165.5	671.2	1 017.3	1 666.6	16.7	30.0	473.6
391	Jewelry, silverware, and plated ware	E1	899	172	13.1	157.2	9.1	16.3	81.6	389.4	768.2	1 138.1	7.9	12.3	234.1
3911	Jewelry, precious metal	E1	671	151	11.2	135.0	7.6	13.8	70.1	312.5	512.2	820.8	(D)	(NA)	(NA)
3915	Jewelers' materials and lapidary work	E1	217	19	1.8	20.6	1.3	2.3	10.4	74.0	252.8	311.3	(D)	(NA)	(NA)
394	Toys and sporting goods	E2	60	11	1.6	10.8	1.4	2.4	7.8	21.2	18.6	39.6	0.6	1.8	20.2
395	Pens, pencils, office and art supplies	–	41	11	1.2	13.2	0.8	1.5	7.1	26.6	29.8	54.9	0.7	1.1	17.8
3952	Lead pencils and art goods	–	10	5	0.7	8.1	0.5	0.9	4.5	17.6	21.0	37.3	0.4	(NA)	(NA)
396	Costume jewelry and notions	E1	320	83	6.2	53.6	5.0	9.1	34.3	110.6	92.3	202.9	3.4	7.0	88.1
3961	Costume jewelry	E1	152	40	2.8	24.4	2.2	4.1	15.0	53.7	42.3	94.5	1.5	(NA)	(NA)
3962	Artificial flowers	–	31	10	0.7	5.5	0.6	1.0	3.6	10.8	8.8	19.4	0.1	(NA)	(NA)
3963	Buttons	E1	69	11	0.9	8.9	0.7	1.2	5.4	12.1	10.1	24.1	0.2	(NA)	(NA)
3964	Needles, pins, and fasteners	E2	68	22	1.8	14.7	1.5	2.8	10.2	34.1	31.0	65.0	1.5	(NA)	(NA)
399	Miscellaneous manufactures	E2	478	55	5.1	55.1	3.9	7.2	34.4	122.7	107.9	229.8	4.0	7.6	112.7
3993	Signs and advertising displays	E3	105	22	1.8	18.8	1.3	2.6	11.0	34.5	28.3	62.7	1.3	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	E2	362	30	3.0	33.2	2.4	4.3	21.6	77.8	70.2	148.2	2.5	(NA)	(NA)
--	Administrative and auxiliary	–	592	332	67.7	1 634.3	–	–	–	–	–	–	–	(NA)	(NA)
	Niagara County	–	306	128	31.5	520.7	22.7	45.8	343.4	1 526.4	1 204.4	2 701.6	125.5	31.8	895.3
20	Food and kindred products	–	28	8	1.2	14.9	1.0	2.2	11.9	86.3	53.9	139.6	(D)	1.4	37.8
26	Paper and allied products	–	13	10	1.6	22.6	1.2	2.9	16.1	31.0	74.9	106.3	(D)	2.4	40.9
281	Industrial inorganic chemicals	–	8	6	1.3	24.3	0.9	1.9	15.7	108.5	71.8	180.7	(D)	1.2	53.9
32	Stone, clay, and glass products	–	24	12	3.2	46.7	2.5	4.8	34.2	122.5	109.8	228.9	(D)	2.9	73.5
34	Fabricated metal products	–	36	13	1.1	11.9	0.8	1.6	8.0	22.6	24.1	46.7	(D)	1.1	13.8
--	Administrative and auxiliary	–	11	8	1.3	25.1	–	–	–	–	–	–	–	(NA)	(NA)
	Oneida County	–	314	108	21.8	286.2	14.9	28.3	166.4	562.5	700.0	1 246.3	29.8	23.4	441.8
20	Food and kindred products	–	49	13	1.2	13.1	0.8	1.6	8.0	30.3	119.9	149.3	2.2	(NA)	(NA)
23	Apparel and other textile products	–	11	4	0.6	5.0	0.5	0.9	4.1	7.4	3.9	11.2	(D)	1.1	13.3
27	Printing and publishing	E1	43	11	0.9	9.4	0.5	0.8	4.3	18.9	7.6	26.5	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	19	4	0.5	4.3	0.4	0.7	2.7	9.7	6.2	15.5	0.6	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Oneida County—Con.														
335	Nonferrous rolling and drawing	–	8	7	3.8	54.9	2.8	5.7	40.3	108.5	268.4	371.9	8.2	3.5	73.9
3357	Nonferrous wire drawing and insulating	–	4	4	1.7	23.4	1.3	2.7	17.2	57.2	99.8	152.4	(D)	(NA)	(NA)
38	Instruments and related products	–	9	4	0.6	5.7	0.4	0.8	3.3	17.1	11.6	27.8	1.0	(NA)	(NA)
	Onondaga County	–	594	221	47.8	744.0	29.9	59.6	410.5	1 534.9	1 364.3	2 870.8	100.5	51.6	1 040.5
205	Bakery products	–	14	3	0.6	8.0	0.3	0.5	4.0	19.9	12.8	32.7	0.1	0.7	17.4
27	Printing and publishing	E1	112	22	1.9	24.0	1.1	2.0	12.2	57.6	26.1	83.6	3.1	2.2	42.2
30	Rubber and miscellaneous plastics products	–	14	9	1.6	15.8	1.3	2.4	10.1	36.8	26.0	62.1	1.7	(NA)	(NA)
344	Fabricated structural metal products	E1	27	13	0.7	9.8	0.5	1.0	6.4	18.4	17.7	35.7	(D)	(NA)	(NA)
356	General industrial machinery	–	21	15	2.0	26.9	1.3	2.7	16.9	47.4	47.4	94.6	3.7	(NA)	(NA)
36	Electric and electronic equipment	–	32	19	10.2	165.3	5.2	10.4	68.8	303.5	156.2	457.8	(D)	(NA)	(NA)
38	Instruments and related products	–	16	8	1.2	12.9	0.9	2.1	9.3	34.1	14.3	47.2	1.8	(NA)	(NA)
--	Administrative and auxiliary	–	14	10	2.9	53.0	–	–	–	–	–	–	–	(NA)	(NA)
	Ontario County	–	125	43	4.6	53.9	3.4	6.6	34.6	139.3	146.5	281.9	8.3	4.4	76.4
20	Food and kindred products	E1	16	10	0.7	7.0	0.5	1.0	3.6	19.4	41.2	60.3	1.1	0.7	15.9
30	Rubber and miscellaneous plastics products	–	6	4	0.9	10.1	0.7	1.4	6.5	28.6	23.5	51.4	3.5	(NA)	(NA)
35	Machinery, except electrical	–	33	7	1.1	15.6	0.8	1.5	10.6	28.9	21.5	50.7	0.9	1.1	15.2
	Orange County	–	358	146	15.2	156.2	11.6	22.1	104.0	406.3	401.6	797.6	21.7	16.5	237.2
20	Food and kindred products	–	24	10	0.7	7.6	0.4	0.7	4.5	21.5	39.3	60.9	(D)	1.1	24.3
22	Textile mill products	–	15	10	1.2	11.9	1.1	2.4	10.4	18.8	15.9	34.6	(D)	1.7	26.5
26	Paper and allied products	–	13	9	0.6	6.6	0.4	0.9	4.1	15.6	25.3	40.6	(D)	0.7	13.3
27	Printing and publishing	E1	43	7	0.9	8.5	0.4	0.7	3.7	19.7	8.8	28.5	(D)	0.9	14.2
2711	Newspapers	–	12	4	0.6	5.5	0.1	0.3	1.5	14.4	4.0	18.4	(D)	(NA)	(NA)
28	Chemicals and allied products	–	11	7	1.8	20.3	1.0	2.0	11.0	119.2	54.7	172.9	(D)	1.1	36.9
284	Soaps, cleaners, and toilet goods	–	4	3	1.2	10.2	0.7	1.5	6.7	97.4	25.6	123.1	0.8	0.8	30.2
30	Rubber and miscellaneous plastics products	E2	14	9	1.4	16.3	1.1	2.2	11.1	32.7	36.8	67.8	(D)	0.6	8.0
31	Leather and leather products	–	12	11	1.2	8.2	1.1	1.9	6.3	12.6	11.9	24.0	(D)	1.6	13.8
32	Stone, clay, and glass products	–	20	6	0.6	6.5	0.5	0.9	4.4	7.3	16.1	24.0	(D)	0.9	14.3
33	Primary metal industries	–	10	6	0.8	9.7	0.6	1.3	7.5	21.9	56.4	79.1	(D)	0.5	9.6
34	Fabricated metal products	–	24	10	1.4	18.6	1.1	2.2	12.1	46.7	41.7	87.3	(D)	1.5	24.5
349	Miscellaneous fabricated metal products	–	9	5	0.6	5.6	0.4	0.8	3.4	12.9	5.9	18.6	(D)	0.5	6.7
36	Electric and electronic equipment	E1	15	6	0.5	4.6	0.4	0.7	3.0	11.0	11.5	22.4	(D)	1.0	12.2
	Orleans County	–	48	16	2.8	29.6	2.3	4.5	23.0	105.7	86.2	190.6	2.7	2.6	76.8
	Oswego County	–	109	40	8.4	128.9	6.4	12.9	92.2	448.8	860.0	1 307.7	48.4	6.9	136.3
26	Paper and allied products	–	8	7	1.6	23.8	1.2	2.7	16.8	55.4	86.4	142.3	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Otsego County	-	60	18	1.6	15.3	1.2	2.3	9.4	32.9	42.6	74.9	1.8	1.3	18.5
	Queens County	-	2 710	907	94.1	1 060.1	70.1	134.1	656.0	2 256.4	2 208.7	4 461.7	92.6	113.6	1 908.2
20	Food and kindred products	-	159	63	10.1	146.2	6.8	13.7	86.6	522.1	630.0	1 149.9	19.2	11.5	335.2
2013	Sausages and other prepared meats	-	11	7	1.0	16.9	0.7	1.6	12.5	44.9	74.0	119.5	(D)	(NA)	(NA)
202	Dairy products	-	16	10	1.6	29.6	0.9	1.9	16.1	66.2	186.3	252.0	2.3	2.3	67.8
203	Preserved fruits and vegetables	E2	18	9	0.8	8.2	0.7	1.2	5.5	28.1	31.3	59.4	0.7	0.6	11.9
205	Bakery products	-	51	12	2.3	33.0	1.4	2.5	16.2	113.0	64.8	177.4	3.1	3.0	56.9
208	Beverages	-	15	7	1.4	20.4	0.8	1.5	10.7	101.2	98.8	200.4	(D)	2.0	84.3
209	Miscellaneous foods and kindred products	-	27	9	0.9	11.5	0.7	1.7	7.4	46.2	66.9	111.4	(D)	0.8	20.3
22	Textile mill products	E2	207	113	8.6	74.5	7.6	14.5	60.5	114.2	113.7	231.2	5.3	9.5	111.3
23	Apparel and other textile products	E1	437	170	12.6	101.3	10.9	18.9	76.7	208.2	199.9	403.6	4.0	12.9	159.5
2335	Women's and misses' dresses	E4	160	40	2.0	12.9	1.8	3.0	10.2	23.5	14.3	37.7	0.3	(NA)	(NA)
2337	Women's and misses' suits and coats	-	36	18	1.8	17.7	1.5	2.6	12.7	47.8	69.7	116.1	0.7	(NA)	(NA)
2392	House furnishings, n.e.c.	E3	34	12	1.0	7.0	0.8	1.5	5.5	10.7	17.1	27.7	0.2	(NA)	(NA)
25	Furniture and fixtures	E2	109	32	2.8	31.4	2.2	4.0	20.8	50.8	42.9	92.4	1.1	2.5	40.2
251	Household furniture	E4	46	9	1.0	9.2	0.8	1.5	5.9	14.4	17.2	31.5	(D)	0.9	12.0
2514	Metal household furniture	E2	8	4	0.5	4.6	0.4	0.7	2.7	7.0	9.6	16.6	(D)	(NA)	(NA)
254	Partitions and fixtures	E1	38	17	1.4	16.6	1.0	1.9	11.5	26.9	17.0	42.6	(D)	1.0	19.1
2541	Wood partitions and fixtures	-	22	9	0.6	8.6	0.5	0.9	6.2	12.8	6.8	18.5	(D)	(NA)	(NA)
2542	Metal partitions and fixtures	E1	16	8	0.7	8.0	0.6	1.0	5.3	14.1	10.2	24.1	(D)	(NA)	(NA)
26	Paper and allied products	E1	83	51	6.4	77.5	4.9	9.8	48.3	144.9	167.2	311.8	6.4	6.1	90.0
2642	Envelopes	-	7	4	0.5	6.3	0.4	0.9	4.6	13.5	15.9	29.2	(D)	(NA)	(NA)
2643	Bags, except textile bags	E2	10	4	0.5	8.1	0.3	0.6	3.4	11.4	16.2	27.5	0.4	(NA)	(NA)
2649	Converted paper products, n.e.c.	E4	12	6	1.0	11.5	0.7	1.4	6.6	24.4	32.6	57.0	1.1	(NA)	(NA)
265	Paperboard containers and boxes	-	40	28	3.8	45.0	3.0	5.9	29.0	80.5	82.9	163.4	3.7	3.9	56.4
2651	Folding paperboard boxes	-	10	5	0.6	7.7	0.5	1.0	4.8	13.9	13.4	26.9	0.3	(NA)	(NA)
2652	Setup paperboard boxes	E4	8	6	1.0	8.5	0.8	1.5	5.8	14.4	9.0	23.6	0.8	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	15	14	1.5	19.7	1.0	2.0	11.7	36.1	44.4	80.5	1.8	(NA)	(NA)
27	Printing and publishing	E1	278	51	4.2	61.8	3.1	5.8	46.8	106.2	67.5	178.0	4.6	6.6	133.2
2711	Newspapers	-	25	3	0.9	16.9	0.5	0.9	15.2	27.7	14.8	42.5	0.4	(NA)	(NA)
275	Commercial printing	E1	170	24	2.1	28.4	1.5	2.9	20.0	47.8	37.3	85.4	3.1	3.3	62.4
2752	Commercial printing, lithographic	-	67	10	1.3	19.5	1.0	1.9	14.3	27.5	23.5	51.3	(D)	(NA)	(NA)
278	Blankbooks and bookbinding	E2	19	12	0.6	7.0	0.6	1.1	5.5	12.7	4.5	16.9	0.6	0.8	8.9
2789	Bookbinding and related work	E1	11	8	0.5	5.5	0.4	0.8	4.5	9.7	2.3	11.7	0.4	(NA)	(NA)
28	Chemicals and allied products	E1	99	20	2.1	27.5	1.2	2.3	11.4	95.4	88.8	184.5	3.2	2.7	84.7
284	Soaps, cleaners, and toilet goods	E1	44	10	1.1	15.6	0.6	1.1	5.6	73.5	50.2	123.7	1.5	1.3	52.7
30	Rubber and miscellaneous plastics products	E1	88	36	2.5	24.9	2.0	3.9	16.5	54.9	54.6	107.7	2.8	3.1	46.2
31	Leather and leather products	E3	25	11	1.0	7.0	0.9	1.5	5.2	14.4	15.0	28.7	(D)	2.2	23.3
32	Stone, clay, and glass products	E1	70	17	1.0	10.8	0.8	1.5	6.7	28.0	23.1	51.1	1.2	1.3	22.3
329	Miscellaneous nonmetallic mineral products	-	16	8	0.5	5.8	0.4	0.8	3.3	17.0	11.1	28.1	0.5	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Queens County—Con.														
33	Primary metal industries	–	39	10	2.3	28.2	1.8	3.4	19.1	55.8	116.9	173.5	1.5	2.6	41.4
335	Nonferrous rolling and drawing	–	6	4	1.0	11.7	0.8	1.5	7.8	25.7	84.2	111.0	(D)	(NA)	(NA)
34	Fabricated metal products	E1	303	100	7.7	91.5	6.0	11.9	58.9	162.5	148.5	308.5	6.1	9.8	159.4
344	Fabricated structural metal products	E1	95	22	1.6	23.1	1.1	2.3	13.3	39.0	37.1	76.9	(D)	2.5	47.1
3452	Bolts, nuts, rivets, and washers	–	8	4	0.6	8.4	0.5	0.9	4.9	11.4	12.6	23.4	0.1	(NA)	(NA)
346	Metal forgings and stampings	E3	42	16	1.1	13.4	0.9	1.7	8.8	26.3	23.9	49.6	(D)	1.4	23.6
349	Miscellaneous fabricated metal products	–	59	20	1.8	20.0	1.5	2.9	13.4	38.3	40.6	75.6	(D)	1.8	30.8
3496	Miscellaneous fabricated wire products	–	18	4	0.5	5.1	0.4	0.8	3.5	8.6	9.9	18.6	(D)	(NA)	(NA)
3499	Fabricated metal products, n.e.c.	E2	28	8	0.5	4.9	0.3	0.7	2.8	10.3	10.1	19.8	(D)	(NA)	(NA)
35	Machinery, except electrical	E1	252	41	5.5	66.9	4.1	7.8	41.4	134.5	80.9	215.9	15.5	6.7	109.3
36	Electric and electronic equipment	–	126	49	9.0	108.3	5.5	11.3	49.2	206.9	156.3	368.8	10.3	10.8	176.3
364	Electric lighting and wiring equipment	–	33	15	2.4	25.6	2.0	4.5	17.5	50.1	42.9	91.0	(D)	2.9	41.9
3645	Residential lighting fixtures	E1	16	7	0.5	4.3	0.3	0.6	2.6	10.6	13.6	24.0	0.2	(NA)	(NA)
366	Communication equipment	–	20	11	1.7	23.5	0.8	1.5	7.9	53.7	31.8	83.3	1.1	1.7	27.4
37	Transportation equipment	E1	33	9	0.9	11.2	0.6	1.4	7.6	21.4	14.4	35.5	0.6	2.1	37.6
38	Instruments and related products	–	87	34	6.4	74.5	4.4	8.8	41.7	144.1	141.2	281.2	4.5	9.0	144.8
39	Miscellaneous manufacturing industries	E1	211	72	8.6	84.9	6.6	12.1	51.0	173.7	119.2	292.8	5.2	10.0	153.9
391	Jewelry, silverware, and plated ware	E1	26	6	1.0	10.5	0.7	1.3	6.3	17.5	18.0	35.6	0.2	0.7	11.0
3911	Jewelry, precious metal	–	12	4	0.8	8.6	0.5	0.9	5.0	14.4	14.4	29.0	(D)	(NA)	(NA)
3931	Musical instruments	–	5	4	0.9	8.6	0.7	1.4	6.3	15.9	6.5	22.9	(D)	(NA)	(NA)
394	Toys and sporting goods	–	21	12	3.3	31.2	2.5	4.6	15.5	75.1	48.6	122.3	(D)	3.2	55.0
3944	Games, toys, and children's vehicles	–	10	8	3.1	28.9	2.2	4.2	13.9	70.8	44.6	114.1	(D)	(NA)	(NA)
396	Costume jewelry and notions	–	31	11	0.9	7.3	0.8	1.3	4.8	13.3	12.1	25.4	0.2	1.7	23.4
399	Miscellaneous manufactures	E2	119	37	2.4	25.9	1.8	3.3	17.3	49.9	29.9	80.2	1.3	3.2	48.8
3993	Signs and advertising displays	E2	59	24	1.5	17.3	1.1	2.0	11.1	32.5	18.5	51.0	(D)	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	E2	53	11	0.7	6.6	0.5	1.0	4.9	12.5	7.2	20.1	0.3	(NA)	(NA)
--	Administrative and auxiliary	–	29	11	1.5	20.8	–	–	–	–	–	–	–	(NA)	(NA)
	Rensselaer County	–	**127**	**39**	**7.1**	**87.9**	**4.4**	**8.5**	**47.1**	**210.4**	**139.2**	**350.4**	**8.7**	**8.9**	**171.1**
26	Paper and allied products	–	5	3	0.5	6.1	0.4	0.7	4.5	11.7	11.2	23.4	(D)	0.6	10.6
27	Printing and publishing	E1	28	4	0.6	6.5	0.3	0.6	3.6	11.6	6.4	17.9	(D)	0.6	7.4
--	Administrative and auxiliary	–	4	3	0.5	6.3	–	–	–	–	–	–	–	(NA)	(NA)
	Richmond County	–	**125**	**40**	**4.7**	**66.2**	**3.6**	**7.0**	**46.7**	**183.1**	**441.7**	**616.4**	**13.6**	**6.0**	**166.4**
23	Apparel and other textile products	E3	34	16	1.1	7.3	0.9	1.6	5.8	10.6	5.0	15.6	0.1	1.4	12.9
	Rockland County	–	**278**	**87**	**14.8**	**202.4**	**9.0**	**17.3**	**105.3**	**809.9**	**433.2**	**1 240.1**	**31.9**	**14.0**	**516.5**
22	Textile mill products	–	7	4	0.6	6.4	0.5	0.8	4.9	8.6	15.4	23.8	(D)	(NA)	(NA)
23	Apparel and other textile products	E1	23	11	0.6	4.2	0.5	0.9	3.1	8.9	12.8	21.7	0.4	(NA)	(NA)
26	Paper and allied products	–	6	4	0.7	9.4	0.6	1.3	8.1	24.4	27.9	51.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Rockland County—Con.													
27	Printing and publishing	–	49	4	0.9	9.8	0.3	0.5	2.7	116.3	39.9	156.3	(D)	1.0	84.8
28	Chemicals and allied products	–	21	8	4.8	73.5	3.0	5.5	44.1	487.1	208.7	693.4	13.6	4.4	321.0
33	Primary metal industries	–	10	5	1.1	17.7	0.8	2.0	11.0	46.8	26.9	73.2	1.3	0.6	15.8
35	Machinery, except electrical	E1	29	4	0.5	7.0	0.4	0.7	4.3	13.3	7.4	20.7	0.5	(NA)	(NA)
36	Electric and electronic equipment	E1	22	12	1.2	14.2	0.9	1.6	7.1	29.9	25.0	54.6	(D)	1.1	8.3
39	Miscellaneous manufacturing industries	–	20	8	0.7	6.6	0.6	1.0	4.3	12.2	10.5	22.4	1.3	(NA)	(NA)
--	Administrative and auxiliary	–	11	10	1.7	29.2	–	–	–	–	–	–	–	(NA)	(NA)
	St. Lawrence County	–	**87**	**34**	**7.2**	**120.1**	**5.5**	**11.2**	**88.7**	**396.5**	**785.1**	**1 210.4**	**43.8**	**7.7**	**131.9**
20	Food and kindred products	–	23	9	0.6	6.8	0.4	0.9	4.7	24.8	90.9	115.4	(D)	0.6	13.0
202	Dairy products	–	12	8	0.5	5.6	0.4	0.7	3.9	21.2	74.3	95.3	(D)	0.5	8.9
33	Primary metal industries	–	6	5	4.1	82.8	3.3	6.5	62.7	307.8	609.8	946.1	(D)	4.1	69.4
	Saratoga County	–	**120**	**35**	**5.3**	**77.9**	**3.6**	**7.7**	**46.1**	**210.3**	**228.1**	**433.2**	**31.6**	**(D)**	**(D)**
26	Paper and allied products	–	13	9	1.6	25.0	1.4	2.9	20.5	66.6	91.4	156.8	(D)	(NA)	(NA)
	Schenectady County	–	**144**	**52**	**24.4**	**421.8**	**12.4**	**25.2**	**168.1**	**750.8**	**642.7**	**1 344.5**	**19.6**	**(D)**	**(D)**
	Schuyler County	–	**19**	**6**	**1.2**	**14.9**	**0.9**	**1.7**	**9.5**	**30.9**	**22.1**	**52.7**	**2.6**	**1.2**	**21.9**
	Seneca County	–	**35**	**12**	**3.3**	**43.5**	**2.1**	**4.3**	**25.4**	**102.2**	**92.6**	**198.3**	**8.1**	**3.5**	**76.2**
	Steuben County	–	**91**	**41**	**14.2**	**211.1**	**7.2**	**14.6**	**83.2**	**393.9**	**271.7**	**664.4**	**19.5**	**11.4**	**200.2**
20	Food and kindred products	–	17	7	1.1	15.4	0.8	1.6	8.0	56.6	94.5	153.1	(D)	1.2	41.4
35	Machinery, except electrical	–	10	8	3.4	47.0	2.3	4.7	29.1	123.8	78.2	198.3	(D)	2.3	42.0
	Suffolk County	–	**2 379**	**632**	**63.8**	**760.1**	**45.3**	**85.2**	**438.2**	**1 667.7**	**1 296.5**	**2 956.3**	**79.7**	**56.8**	**904.7**
20	Food and kindred products	E1	82	21	3.1	41.3	2.1	4.1	22.8	110.0	125.6	235.7	1.9	2.7	42.5
22	Textile mill products	E2	62	27	2.0	19.7	1.8	3.4	16.0	31.1	41.0	73.0	3.1	2.3	31.6
225	Knitting mills	E2	48	23	1.5	15.3	1.4	2.6	12.1	23.5	32.0	56.5	2.9	1.6	21.1
23	Apparel and other textile products	E2	179	87	5.0	36.9	4.4	7.2	28.3	70.8	70.2	139.9	1.6	(NA)	(NA)
2335	Women's and misses' dresses	E6	75	37	1.8	11.4	1.6	2.7	9.5	17.7	8.0	25.6	0.3	(NA)	(NA)
25	Furniture and fixtures	E2	69	16	1.3	13.3	1.1	2.0	8.8	27.0	22.6	49.7	(D)	1.1	14.7
26	Paper and allied products	E3	47	21	1.8	18.6	1.4	2.6	12.7	47.6	61.1	107.2	1.2	1.3	24.7
264	Miscellaneous converted paper products	E5	27	10	0.9	8.3	0.7	1.3	5.6	25.1	29.0	53.8	0.5	(NA)	(NA)
265	Paperboard containers and boxes	–	20	11	0.9	10.3	0.7	1.3	7.1	22.6	32.0	53.4	0.6	0.8	16.2
275	Commercial printing	E2	182	19	2.3	30.5	1.6	2.9	19.3	61.4	36.0	97.3	5.3	1.7	27.4
2751	Commercial printing, letterpress	E3	104	9	1.0	11.1	0.7	1.2	6.8	20.0	13.2	33.3	0.7	(NA)	(NA)
2752	Commercial printing, lithographic	E2	73	9	1.2	19.0	0.9	1.7	12.2	40.6	22.3	62.8	4.6	(NA)	(NA)
28	Chemicals and allied products	E1	67	19	2.8	26.2	2.0	3.8	14.9	251.3	130.0	378.9	(D)	2.0	39.5
30	Rubber and miscellaneous plastics products	E2	93	34	2.8	27.3	2.2	4.2	18.4	57.7	61.6	118.5	4.6	2.2	29.5

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more end industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County end industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Suffolk County—Con.														
30	Rubber and miscellaneous plastics products—Con.														
3079	Miscellaneous plastics products	E2	87	32	2.7	26.2	2.1	4.0	17.7	55.4	59.6	114.3	4.5	(NA)	(NA)
33	Primary metel industries	E1	37	11	0.9	10.6	0.7	1.3	6.0	20.9	40.6	61.9	(D)	0.6	10.3
34	Fabricated metal products	E1	266	63	5.8	66.5	4.4	8.8	43.5	127.9	145.8	270.7	9.0	6.0	89.4
35	Machinery, except electrical	E1	433	65	6.2	83.8	4.0	7.9	44.6	174.2	107.1	278.5	8.8	3.1	53.1
3573	Electronic computing equipment	-	17	9	1.4	20.6	0.8	1.7	8.6	47.7	35.7	81.7	2.0	(NA)	(NA)
36	Electric and electronic equipment	-	230	98	17.4	225.3	11.9	22.6	131.0	426.9	259.1	686.1	16.6	16.4	269.8
364	Electric lighting end wiring equipment	-	28	14	1.6	16.8	1.2	2.1	9.2	40.7	46.5	85.0	1.8	1.4	25.6
365	Radio and TV receiving equipment	E2	18	9	0.9	8.4	0.7	1.2	4.4	16.0	22.7	38.8	0.9	1.0	9.5
367	Electronic components and accessories	E1	82	29	3.9	44.3	2.7	5.0	24.2	73.5	49.1	121.8	3.8	2.2	34.3
3675	Electronic capacitors	-	3	3	0.6	6.8	0.5	1.0	4.5	9.7	2.4	11.8	(D)	(NA)	(NA)
38	Instruments and related products	E2	105	35	3.1	37.3	1.9	3.7	18.2	87.7	55.2	141.4	3.3	2.2	38.7
39	Miscellaneous manufacturing industries	E2	114	25	1.9	16.6	1.5	2.7	10.7	38.2	33.1	73.2	1.4	1.4	22.5
394	Toys and sporting goods	E1	23	6	0.5	4.1	0.4	0.6	2.5	16.3	13.4	29.9	0.4	0.6	13.5
399	Miscellaneous manufactures	E2	66	13	0.9	7.9	0.7	1.2	5.1	14.1	10.6	26.4	0.7	0.6	6.8
--	Administrative end auxiliery	-	25	19	1.9	38.0	-	-	-	-	-	-	-	(NA)	(NA)
	Sullivan County	-	**81**	**9**	**0.8**	**8.2**	**0.6**	**1.2**	**5.2**	**19.9**	**29.0**	**49.2**	**1.5**	**0.9**	**13.6**
	Tioga County	-	**50**	**17**	**6.7**	**125.1**	**2.5**	**4.5**	**26.9**	**235.5**	**98.7**	**331.0**	**(D)**	**4.7**	**81.3**
	Tompkins County	-	**84**	**17**	**5.3**	**65.3**	**3.8**	**7.0**	**38.9**	**153.5**	**94.6**	**243.6**	**9.2**	**5.4**	**87.4**
	Ulster County	-	**237**	**59**	**7.9**	**79.3**	**6.0**	**11.2**	**50.5**	**186.0**	**151.7**	**336.5**	**7.4**	**12.6**	**183.8**
23	Apparel and other textile products	-	28	16	1.6	10.5	1.4	2.4	7.9	18.3	17.4	35.3	(D)	1.2	10.2
27	Printing and publishing	E2	31	7	0.6	6.2	0.4	0.8	3.7	14.4	10.7	25.3	(D)	0.5	6.9
34	Fabricated metal products	-	21	5	1.0	6.4	0.6	1.1	4.6	14.8	8.6	23.0	(D)	0.6	7.1
35	Machinery, except electrical	-	34	6	1.4	16.7	1.0	2.0	9.2	36.4	15.5	49.7	(D)	(NA)	(NA)
	Warren County	-	**95**	**27**	**5.1**	**65.2**	**3.9**	**7.8**	**45.4**	**147.8**	**211.3**	**357.3**	**35.1**	**4.8**	**79.9**
23	Apparel and other textile products	E1	5	4	0.6	3.2	0.5	0.9	2.8	5.9	3.3	8.9	(D)	0 6	3.6
24	Lumber and wood products	-	30	6	0.6	6.4	0.5	1.0	4.1	10.0	54.4	66.2	(D)	(NA)	(NA)
	Washington County	-	**77**	**29**	**5.9**	**76.1**	**4.7**	**9.2**	**50.9**	**183.9**	**185.7**	**369.4**	**13.5**	**5.8**	**116.5**
26	Paper and allied products	-	7	6	1.3	18.4	1.1	2.1	14.1	54.8	86.9	141.7	(D)	1.4	39.5
	Weyne County	-	**119**	**41**	**6.9**	**77.9**	**4.7**	**9.5**	**45.7**	**158.0**	**189.2**	**345.8**	**9.9**	**6.8**	**106.5**
20	Food and kindred products	-	24	10	1.2	12.7	1.0	2.1	8.0	41.9	68.1	109.7	2.5	1.5	26.0
203	Preserved fruits and vegetables	-	14	6	1.0	10.1	0.7	1.6	6.0	32.9	52.0	84.9	1.9	1.3	23.8
2033	Canned fruits and vegetables	-	8	6	0.9	9.3	0.7	1.5	5.4	29.5	48.4	77.9	(D)	(NA)	(NA)
35	Machinery, except electrical	E1	17	5	0.6	6.4	0.4	0.8	4.0	13.1	10.0	23.2	0.3	(NA)	(NA)
	Westchester County	-	**1 450**	**433**	**62.2**	**942.0**	**28.9**	**55.2**	**309.7**	**1 600.9**	**2 250.4**	**3 853.4**	**66.4**	**67.0**	**1 080.2**
20	Food and kindred products	-	70	20	2.3	32.2	1.6	3.1	20.1	147.3	235.9	384.9	7.6	3.4	97.6

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Westchester County—Con.													
23	Apparel and other textile products	E1	138	55	4.5	34.9	3.8	6.3	23.5	63.1	59.4	122.7	1.4	5.8	57.0
2335	Women's and misses' dresses	E2	59	28	1.7	10.9	1.6	2.7	9.3	18.9	5.1	24.0	0.3	(NA)	(NA)
25	Furniture and fixtures	E4	33	5	0.5	4.8	0.4	0.7	3.6	10.1	9.1	19.0	(D)	0.7	8.2
27	Printing and publishing	-	296	49	8.7	113.1	2.5	4.6	26.3	393.6	201.5	602.3	9.0	7.0	241.9
2711	Newspapers	-	22	5	1.6	15.4	0.4	0.7	4.1	38.0	10.0	48.0	0.6	(NA)	(NA)
2741	Miscellaneous publishing	E3	32	6	0.5	4.9	0.2	0.3	1.4	11.4	5.3	16.7	0.3	(NA)	(NA)
275	Commercial printing	E2	135	22	1.5	19.4	1.2	2.0	13.4	37.8	23.2	60.9	3.9	1.6	27.0
2752	Commercial printing, lithographic	E2	55	11	0.7	10.7	0.5	0.9	7.1	19.2	12.6	31.8	(D)	(NA)	(NA)
28	Chemicals and allied products	-	71	20	2.5	39.3	0.9	1.7	8.8	125.8	97.6	224.1	4.5	2.0	97.5
30	Rubber and miscellaneous plastics products	E1	50	22	1.5	17.6	1.1	1.9	10.3	32.6	39.1	71.9	3.5	2.1	32.6
31	Leather and leather products	-	13	6	0.8	5.9	0.7	1.4	4.6	12.1	16.9	29.2	0.2	(NA)	(NA)
32	Stone, clay, and glass products	E2	43	12	0.8	10.8	0.6	1.2	7.0	22.8	24.9	47.9	3.2	0.9	17.6
33	Primary metal industries	-	21	14	2.1	28.7	1.5	3.1	17.4	83.3	296.9	378.9	3.3	3.1	41.1
35	Machinery, except electrical	E1	129	20	2.7	39.2	1.7	3.3	21.4	61.2	41.4	102.0	3.3	3.6	47.9
359	Miscellaneous machinery, except electrical	E3	59	6	0.5	5.7	0.4	0.7	4.1	8.9	4.4	13.3	0.7	0.7	7.1
3599	Machinery, except electrical, n.e.c.	E3	59	6	0.5	5.7	0.4	0.7	4.1	8.9	4.4	13.3	0.7	(NA)	(NA)
36	Electric and electronic equipment	E1	123	50	7.7	104.5	4.8	9.3	48.0	251.0	143.6	393.4	10.6	6.2	101.4
366	Communication equipment	-	16	7	0.6	8.7	0.4	0.7	4.8	16.3	10.0	26.1	0.5	1.2	23.0
369	Miscellaneous electrical equipment and supplies	-	19	11	2.4	44.7	1.1	1.9	14.4	130.5	50.4	180.4	4.5	0.9	15.0
38	Instruments and related products	-	66	27	2.3	29.7	1.4	2.6	12.7	72.0	84.2	153.0	2.6	2.8	52.8
382	Measuring and controlling devices	E2	12	8	0.5	6.7	0.3	0.6	3.1	12.2	5.2	17.1	1.5	(NA)	(NA)
39	Miscellaneous manufacturing industries	E1	88	17	1.5	14.3	1.2	2.2	8.2	28.7	26.8	55.7	1.4	1.9	23.4
--	Administrative and auxiliary	-	72	49	16.0	339.1	-	-	-	-	-	-	-	(NA)	(NA)
	Wyoming County	-	**48**	**22**	**3.6**	**37.2**	**3.0**	**5.8**	**27.9**	**90.2**	**108.4**	**200.1**	**5.2**	3.9	**50.0**
36	Electric and electronic equipment	-	4	4	1.9	19.1	1.6	3.2	15.1	49.5	46.9	96.7	(D)	2.1	26.4
	Yates County	-	**21**	**8**	**0.8**	**8.7**	**0.6**	**1.2**	**5.2**	**19.8**	**28.7**	**47.6**	**0.9**	**1.0**	**12.1**

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Akron	–	**10**	**7**	**0.9**	**12.7**	**0.6**	**1.2**	**7.4**	**29.4**	**17.7**	**46.6**	**1.1**	**1.3**	**21.3**
	Albany	–	**105**	**35**	**5.1**	**73.4**	**2.9**	**5.8**	**34.4**	**152.6**	**169.0**	**320.2**	**4.4**	**6.7**	**146.7**
20	Food and kindred products	–	18	9	1.6	23.7	1.1	2.3	14.3	43.4	106.4	149.5	1.8	2.7	80.6
27	Printing and publishing	–	37	8	1.6	24.7	0.6	1.1	7.5	59.2	18.1	76.6	1.3	(NA)	(NA)
	Amityville	–	**49**	**12**	**0.8**	**7.9**	**0.6**	**1.1**	**4.8**	**12.7**	**11.7**	**24.3**	**0.4**	**1.4**	**16.3**
	Ardsley	–	6	3	**1.2**	**24.2**	**0.1**	**0.1**	**0.7**	**2.0**	**1.0**	**3.1**	**0.1**	**(NA)**	**(NA)**
	Auburn	–	**64**	**25**	**4.6**	**56.1**	**3.0**	**5.7**	**31.1**	**103.5**	**133.0**	**240.3**	**8.5**	**5.2**	**104.1**
	Baldwinsville	–	**11**	**8**	**1.6**	**23.4**	**1.1**	**2.0**	**13.3**	**54.1**	**78.0**	**131.3**	**(D)**	**1.0**	**19.5**
	Batavia	–	**46**	**23**	**2.8**	**35.0**	**2.0**	**3.7**	**21.0**	**58.3**	**94.6**	**157.6**	**3.5**	**4.0**	**38.7**
35	Machinery, except electrical	–	9	3	0.8	10.8	0.5	1.0	6.3	18.9	24.4	44.6	(D)	(NA)	(NA)
	Beacon	–	**24**	**15**	**2.1**	**23.6**	**1.7**	**3.6**	**17.0**	**49.3**	**62.7**	**111.5**	**1.8**	**(D)**	**(D)**
	Binghamton	–	**116**	**42**	**8.4**	**92.4**	**6.0**	**11.1**	**57.9**	**165.6**	**193.8**	**367.8**	**11.8**	**12.1**	**195.0**
35	Machinery, except electrical	–	13	4	1.9	19.8	1.5	2.6	13.7	31.8	33.8	64.9	(D)	1.0	14.9
36	Electric and electronic equipment	–	11	5	0.8	6.9	0.6	1.0	4.3	16.7	8.2	25.4	0.6	3.7	61.4
	Brentwood (U)	–	**17**	**8**	**0.5**	**4.4**	**0.4**	**0.7**	**2.9**	**7.8**	**9.0**	**16.8**	**0.3**	**0.5**	**5.2**
	Brockport	–	**11**	**3**	**1.5**	**18.9**	**1.2**	**2.4**	**15.0**	**58.0**	**36.4**	**94.6**	**2.1**	**1.4**	**34.3**
	Buffalo	–	**725**	**271**	**46.4**	**692.5**	**33.4**	**66.4**	**458.8**	**1 445.1**	**1 864.8**	**3 282.1**	**79.7**	**53.2**	**1 052.1**
20	Food and kindred products	–	91	42	6.2	84.8	4.3	8.7	54.8	317.8	475.6	793.2	11.1	8.1	213.0
205	Bakery products	–	22	8	1.1	11.5	0.7	1.3	6.6	26.4	19.8	46.2	2.4	(NA)	(NA)
23	Apparel and other textile products	–	30	7	2.2	21.8	1.9	3.7	18.0	40.5	34.6	74.2	(D)	(NA)	(NA)
25	Furniture and fixtures	–	17	5	0.5	6.0	0.4	0.8	4.4	10.8	6.0	16.5	0.3	0.7	10.0
26	Paper and allied products	–	28	21	1.7	18.8	1.4	2.6	12.1	32.3	39.2	72.4	1.3	1.6	24.4
27	Printing and publishing	–	123	23	4.1	67.1	2.2	4.2	33.1	115.5	62.3	178.2	8.4	4.6	78.4
2752	Commercial printing, lithographic	–	38	12	1.4	23.9	0.8	1.5	11.8	34.4	29.6	64.3	(D)	(NA)	(NA)
28	Chemicals and allied products	–	34	19	2.4	34.8	1.2	2.4	15.5	112.9	79.5	192.8	5.8	3.5	91.4
30	Rubber and miscellaneous plastics products	–	24	14	1.3	14.7	0.9	1.8	7.9	31.0	26.9	57.3	1.2	1.9	32.5
3079	Miscellaneous plastics products	–	17	10	0.7	7.9	0.5	1.1	4.6	17.4	13.9	31.1	0.9	(NA)	(NA)
32	Stone, clay, and glass products	–	16	4	1.0	11.6	0.8	1.6	8.3	24.9	16.8	40.7	(D)	0.9	11.0
33	Primary metal industries	–	23	18	5.8	103.1	4.7	9.2	79.6	155.0	430.9	577.8	13.0	5.3	92.4
331	Blast furnace and basic steel products	–	7	7	3.9	71.8	3.2	6.0	54.6	91.2	291.1	372.8	11.1	(NA)	(NA)
34	Fabricated metal products	E1	92	35	2.5	32.7	2.0	3.7	22.1	60.9	45.0	105.0	5.0	3.8	71.5
35	Machinery, except electrical	–	99	38	6.3	92.9	4.1	8.3	55.8	200.0	109.4	300.9	5.9	7.0	131.9
355	Special industry machinery	–	11	7	0.7	10.5	0.5	0.9	6.1	24.7	13.4	37.9	0.6	(NA)	(NA)
3551	Food products machinery	–	6	4	0.5	6.7	0.3	0.6	3.5	15.0	8.8	23.7	0.4	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	34	9	0.5	6.0	0.4	0.7	4.0	11.4	4.3	15.8	0.8	(NA)	(NA)

See footnotes at end of table.

Table 8. **Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972**—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Buffalo—Con.														
38	Instruments and related products	-	17	6	0.5	6.9	0.3	0.6	3.6	12.1	25.3	37.3	1.0	(NA)	(NA)
--	Administrative and auxiliary	-	17	8	0.7	14.0	-	-	-	-	-	-	-	(NA)	(NA)
	Canandaigua	-	16	7	1.2	12.9	0.9	1.7	7.8	39.5	50.1	88.3	4.0	0.7	13.3
	Canastota	-	16	5	0.5	6.4	0.4	0.8	4.5	15.8	37.5	54.3	0.9	0.7	11.8
	Central Islip (U)	-	53	15	1.0	11.1	0.7	1.2	6.5	26.2	35.9	60.2	0.9	(NA)	(NA)
	Cobleskill	-	16	5	0.6	4.6	0.4	0.8	2.9	9.6	9.0	17.6	0.7	(NA)	(NA)
	Cohoes	-	30	13	1.7	16.5	1.4	2.8	12.5	31.7	66.2	96.0	1.7	2.3	27.6
	Cortland	-	35	11	2.4	23.7	1.7	3.4	15.3	31.9	63.5	101.8	1.5	3.8	57.8
	Deer Park (U)	-	226	47	7.4	97.0	5.9	11.2	71.5	214.5	109.4	321.6	10.9	6.2	117.7
34	Fabricated metal products	E2	43	10	0.7	7.4	0.5	1.0	4.9	13.9	11.1	24.9	0.6	0.5	6.3
35	Machinery, except electrical	E3	50	6	0.5	6.6	0.3	0.7	4.1	12.4	6.0	18.2	0.4	(NA)	(NA)
	Depew	-	30	9	1.9	26.9	1.6	2.9	21.7	43.5	29.3	71.8	2.0	3.2	50.3
	Dobbs Ferry	-	21	6	0.8	14.6	0.1	0.3	1.1	5.9	4.6	10.3	0.2	(NA)	(NA)
	Dolgeville	-	9	4	0.9	6.3	0.8	1.5	4.4	12.6	9.8	22.1	0.3	1.1	12.1
	Dunkirk	-	38	21	4.2	65.6	3.4	6.6	51.9	150.0	189.3	337.3	22.0	3.6	52.7
20	Food and kindred products	-	9	8	1.0	11.7	0.7	1.3	6.8	46.0	80.2	126.1	3.4	0.9	13.5
	East Aurora	-	24	5	2.2	26.2	1.5	2.7	13.5	37.4	34.0	71.6	(D)	(D)	(D)
	East Rochester	-	14	6	0.7	5.9	0.5	1.1	3.8	16.4	11.2	27.1	0.5	0.9	14.3
	Elmira	-	49	22	4.8	59.3	3.2	6.4	36.1	131.3	82.7	211.4	6.2	5.9	85.5
27	Printing and publishing	-	11	5	0.6	6.1	0.3	0.6	3.5	14.9	6.8	21.7	(D)	0.8	11.1
35	Machinery, except electrical	-	5	4	1.2	16.4	0.9	1.7	10.8	43.5	18.0	59.9	(D)	(NA)	(NA)
	Elmira Heights	-	11	7	1.2	16.4	0.8	1.5	9.9	32.3	30.0	61.6	1.2	(D)	(D)
	Falconer	-	21	9	1.4	15.4	1.1	2.0	10.5	33.9	23.4	55.6	(D)	1.8	28.7
	Farmingdale	-	88	25	7.5	129.0	4.8	9.0	72.5	246.9	158.7	377.6	12.0	3.9	63.3
	Fayetteville	-	13	6	0.6	6.8	0.5	0.9	5.3	11.7	8.5	20.0	0.8	0.6	8.7
	Freeport	-	161	43	2.9	32.9	2.2	4.3	20.5	73.7	120.0	191.8	3.7	3.0	43.9
	Garden City	-	36	12	3.0	49.2	1.2	2.3	16.6	105.0	53.4	157.4	(D)	6.2	93.2
	Geneva	-	20	8	1.0	13.9	0.8	1.5	10.1	30.7	25.8	58.1	0.8	1.5	23.1
	Glen Cove	-	60	24	4.7	53.8	3.1	6.1	28.2	122.7	110.6	229.8	7.6	4.3	90.2
36	Electric and electronic equipment	-	6	4	1.7	20.3	1.2	2.4	11.6	46.4	28.2	74.1	(D)	(NA)	(NA)
	Glens Falls	-	44	18	3.1	38.0	2.4	4.6	27.2	88.2	105.9	193.0	(D)	4.4	73.5
	Gloversville	-	91	34	4.1	36.2	3.4	6.7	26.2	78.0	105.3	183.7	3.4	4.0	51.2
22	Textile mill products	-	8	3	0.5	3.9	0.4	0.9	2.8	15.7	12.9	29.7	(D)	(NA)	(NA)
31	Leather and leather products	-	46	23	2.6	22.4	2.2	4.2	17.0	39.1	69.6	109.5	(D)	2.4	24.8
	Great Neck Plaza	-	33	8	0.6	8.1	0.3	0.6	2.4	5.0	3.9	8.9	0.1	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Harrison	-	13	4	0.7	8.9	(Z)	0.1	0.5	2.2	1.5	3.8	0.1	(NA)	(NA)
	Hempstead	-	63	17	1.1	11.3	0.7	1.7	6.3	25.7	27.5	52.8	0.6	1.3	23.3
	Herkimer	-	11	7	0.5	5.9	0.3	0.6	2.8	9.9	10.8	20.5	(D)	(D)	(D)
	Hicksville (U)	-	137	45	5.1	59.5	3.3	6.4	31.6	122.2	116.6	243.9	8.3	4.3	87.7
27	Printing and publishing	E2	32	5	0.5	5.0	0.3	0.6	2.5	8.4	4.3	12.7	0.9	(NA)	(NA)
36	Electric and electronic equipment	-	15	10	2.0	23.8	1.1	2.0	10.4	49.3	37.7	92.8	3.0	1.6	35.9
367	Electronic components and accessories	-	8	4	1.2	13.8	0.7	1.3	6.5	32.0	23.4	64.3	(D)	(NA)	(NA)
	Horseheads	-	19	11	3.6	44.9	2.4	4.8	27.0	71.9	101.6	173.6	2.5	4.3	73.6
	Hudson	-	35	12	1.1	11.1	0.8	1.6	6.8	36.3	24.8	60.6	0.8	1.3	21.3
	Hudson Falls	-	15	6	2.2	30.5	1.7	3.3	18.7	64.1	50.7	115.4	(D)	2.4	43.4
	Huntington Station (U)	-	67	12	1.1	12.3	0.8	1.6	7.0	21.7	17.2	39.7	1.2	0.8	10.1
36	Electric and electronic equipment	-	9	4	0.5	5.8	0.4	0.8	3.1	9.6	4.9	15.2	0.4	(NA)	(NA)
	Jamestown	-	106	39	6.1	74.7	4.1	8.5	47.1	132.9	90.4	223.1	6.5	9.1	145.0
25	Furniture and fixtures	-	21	11	1.2	11.5	1.0	1.9	8.7	20.1	13.6	33.6	0.3	1.5	18.4
2511	Wood household furniture	-	9	6	0.7	5.9	0.6	1.2	4.7	9.8	7.9	17.8	0.1	(NA)	(NA)
34	Fabricated metal products	-	22	8	1.7	20.6	1.2	2.6	14.3	38.9	17.9	56.7	1.4	2.9	49.6
344	Fabricated structural metal products	-	7	3	0.6	7.0	0.3	0.7	4.3	11.2	6.6	17.7	(D)	(NA)	(NA)
35	Machinery, except electrical	-	10	6	1.3	18.4	0.8	1.7	11.4	29.4	9.8	39.1	1.4	2.2	38.1
	Kingston	-	72	27	1.9	17.5	1.5	2.9	12.3	36.4	21.6	57.4	0.8	(D)	(D)
	Lakewood	-	10	4	0.5	7.8	0.3	0.6	3.7	12.5	15.3	26.3	(D)	(NA)	(NA)
	Lancaster	-	20	7	1.0	12.6	0.7	1.3	7.0	25.8	17.4	42.8	1.2	1.0	17.0
	Lindenhurst	-	103	27	2.1	21.0	1.6	2.9	13.7	32.7	37.2	71.3	3.4	1.9	23.3
36	Electric and electronic equipment	-	7	3	0.5	4.5	0.3	0.5	2.0	5.8	8.8	14.8	0.5	(NA)	(NA)
	Little Falls	-	23	10	1.3	12.1	1.0	2.1	9.3	29.0	30.0	64.2	2.4	2.1	30.4
	Lockport	-	51	23	11.4	205.0	9.3	19.0	161.9	757.3	495.2	1 245.6	31.3	11.0	458.3
	Lynbrook	-	80	26	1.5	15.1	1.2	2.3	9.3	28.6	34.2	62.6	0.8	1.7	23.6
	Malone	-	17	5	0.6	3.7	0.5	0.8	2.9	9.7	9.5	19.1	0.2	0.6	6.5
	Mamaroneck	-	55	16	1.7	19.8	1.4	2.6	13.1	34.9	77.8	112.5	1.6	1.8	23.6
36	Electric and electronic equipment	E1	6	2	0.8	8.4	0.6	1.2	5.7	9.5	5.6	15.2	(D)	0.8	9.4
	Manlius	-	14	6	0.7	8.0	0.6	1.1	4.9	13.8	13.4	27.6	0.6	0.7	9.3
	Medina	-	21	9	1.9	18.9	1.6	3.2	15.4	58.4	42.0	99.6	1.1	1.6	31.8
	Middletown	-	55	19	2.7	26.9	1.8	3.4	15.1	126.7	49.6	175.7	2.1	2.4	48.5
30	Rubber and miscellaneous plastics products	E5	4	3	0.6	5.8	0.5	1.0	4.1	11.8	9.7	21.3	(D)	(NA)	(NA)
	Mineola	-	97	26	2.0	21.6	1.5	3.0	13.5	50.0	49.4	97.6	2.1	2.4	42.8
34	Fabricated metal products	-	16	6	0.6	6.5	0.6	1.1	4.6	18.6	18.1	35.6	(D)	0.8	13.4
	Mount Kisco	-	22	7	0.9	9.6	0.6	1.2	5.6	17.6	15.0	33.2	1.4	0.7	9.8

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Mount Vernon	-	**290**	**103**	**8.7**	**99.7**	**6.2**	**11.5**	**52.3**	**212.0**	**330.1**	**538.3**	**9.4**	**8.9**	**146.8**
233	Women's and misses' outerwear	E3	21	15	0.8	5.4	0.7	1.2	4.9	7.1	1.3	8.3	0.2	(NA)	(NA)
36	Electric and electronic equipment	E1	34	17	2.3	23.5	1.6	3.1	13.2	51.8	48.6	98.8	1.8	(NA)	(NA)
399	Miscellaneous manufactures	-	13	5	0.5	2.9	0.4	0.9	2.0	6.8	7.1	14.0	(Z)	(NA)	(NA)
	Newark	-	**18**	**8**	**1.3**	**12.1**	**1.0**	**2.1**	**8.4**	**18.1**	**21.8**	**40.0**	**0.3**	**1.1**	**15.6**
	Newburgh	-	**80**	**43**	**3.5**	**32.5**	**2.8**	**5.2**	**22.7**	**66.3**	**63.7**	**127.5**	**3.2**	**5.2**	**66.5**
23	Apparel and other textile products	E1	18	13	0.7	4.8	0.7	1.2	4.0	7.2	2.7	9.7	(D)	1.1	8.8
31	Leather and leather products	-	7	6	0.7	4.7	0.6	1.1	3.5	7.1	7.1	13.8	(D)	1.1	8.4
317	Handbags and other personal leather goods	-	7	6	0.7	4.7	0.6	1.1	3.5	7.1	7.1	13.8	(D)	(NA)	(NA)
3171	Women's handbags and purses	-	7	6	0.7	4.7	0.6	1.1	3.5	7.1	7.1	13.8	(D)	(NA)	(NA)
	New Hyde Park	-	**54**	**21**	**1.8**	**22.0**	**1.3**	**2.5**	**14.6**	**41.9**	**27.5**	**68.9**	**1.1**	**1.5**	**30.0**
36	Electric and electronic equipment	-	5	5	0.5	5.7	0.3	0.6	3.2	11.2	6.1	17.3	0.2	(NA)	(NA)
	New Rochelle	-	**114**	**34**	**3.5**	**44.7**	**2.2**	**3.9**	**22.4**	**102.6**	**126.0**	**228.0**	**2.9**	**3.7**	**52.6**
	New York	-	**21 460**	**6 607**	**609.7**	**7 640.0**	**386.9**	**710.1**	**3 386.6**	**14 606.2**	**15 116.1**	**29 559.7**	**560.4**	**757.5**	**11 579.4**
20	Food and kindred products	-	707	219	25.7	359.9	17.4	34.9	213.4	1 090.8	1 787.7	2 875.2	65.5	38.4	1 017.5
201	Meat products	E1	107	38	3.3	52.8	2.6	5.6	39.5	119.0	296.6	416.9	6.6	(NA)	(NA)
2013	Sausages and other prepared meats	-	77	33	2.8	47.3	2.2	4.8	35.0	107.7	250.2	359.8	4.9	(NA)	(NA)
202	Dairy products	-	59	22	2.4	41.2	1.3	2.9	22.5	96.1	256.0	350.8	3.6	(NA)	(NA)
2024	Ice cream and frozen desserts	-	24	8	0.8	14.2	0.5	1.0	8.2	36.5	61.1	97.6	1.9	(NA)	(NA)
2026	Fluid milk	-	24	11	1.4	25.6	0.7	1.6	13.3	56.5	183.4	238.7	1.6	(NA)	(NA)
203	Preserved fruits and vegetables	E3	61	26	1.6	17.2	1.3	2.3	10.5	46.9	67.7	114.7	(D)	(NA)	(NA)
2035	Pickles, sauces, and salad dressings	E2	25	11	0.7	7.8	0.5	0.9	4.1	18.0	30.2	48.2	0.7	(NA)	(NA)
2038	Frozen specialties	-	13	9	0.6	5.9	0.4	0.8	3.8	18.5	21.1	39.6	0.5	(NA)	(NA)
2045	Blended and prepared flour	-	4	4	0.5	10.6	0.3	0.8	5.7	31.5	43.6	74.5	(D)	(NA)	(NA)
205	Bakery products	E1	197	45	7.2	97.1	4.3	8.1	49.4	231.8	162.1	394.0	5.7	(NA)	(NA)
206	Sugar and confectionery products	-	50	19	4.1	52.0	3.1	6.0	35.7	221.3	326.8	547.1	27.3	(NA)	(NA)
2065	Confectionery products	E1	38	13	1.4	13.3	1.1	2.3	8.6	38.4	43.5	81.6	1.9	(NA)	(NA)
208	Beverages	-	78	20	2.9	43.3	1.7	3.4	22.3	175.9	200.4	376.4	6.0	(NA)	(NA)
2086	Bottled and canned soft drinks	-	45	12	2.0	30.1	1.1	2.2	15.8	66.2	116.0	182.5	4.2	(NA)	(NA)
2087	Flavoring extracts and sirups, n.e.c.	-	20	6	0.5	7.0	0.3	0.7	3.3	89.9	56.1	145.5	0.8	(NA)	(NA)
209	Miscellaneous foods and kindred products	-	137	40	3.3	39.1	2.5	5.2	23.9	142.3	329.0	468.1	10.2	(NA)	(NA)
2098	Macaroni and spaghetti	-	31	7	0.8	8.9	0.6	1.5	6.5	33.0	36.4	69.4	0.7	(NA)	(NA)
2099	Food preparations, n.e.c.	-	57	13	1.3	15.8	1.0	2.2	9.1	40.2	67.9	107.8	8.1	(NA)	(NA)
22	Textile mill products	E2	959	391	28.2	253.9	24.0	46.3	184.8	465.6	788.4	1 255.5	42.8	36.5	507.6
2221	Weaving mills, manmade fiber and silk	E2	15	5	0.6	6.3	0.4	0.9	5.0	7.8	11.7	20.2	1.1	(NA)	(NA)
2241	Narrow fabric mills	E2	42	9	0.8	7.0	0.7	1.4	5.2	14.7	12.7	27.3	0.4	(NA)	(NA)
225	Knitting mills	E2	638	301	20.7	180.3	17.8	33.6	130.3	331.7	620.2	949.4	31.3	(NA)	(NA)
2253	Knit outerwear mills	E2	418	223	14.4	122.0	12.5	22.9	89.3	216.4	308.0	520.5	14.5	(NA)	(NA)
2257	Circular knit fabric mills	E1	119	45	3.8	38.3	3.2	6.3	27.2	77.4	223.2	302.9	(D)	(NA)	(NA)
2258	Warp knit fabric mills	-	31	12	1.0	9.9	0.8	1.7	5.7	22.9	71.5	93.5	(D)	(NA)	(NA)
2259	Knitting mills, n.e.c.	E6	57	16	0.9	6.3	0.9	1.7	5.0	8.8	11.4	20.2	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
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		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York—Con.													
22	Textile mill products—Con.													
226	Textile finishing, except wool	E2	68	28	1.9	20.6	1.6	3.5	16.2	36.7	47.0	85.3	2.5	(NA)	(NA)
2262	Finishing plants, synthetics	E1	30	18	1.1	12.7	1.0	2.2	9.9	24.0	36.3	61.9	1.9	(NA)	(NA)
2269	Finishing plants, n.e.c.	E1	20	7	0.5	5.6	0.5	1.0	4.5	9.4	6.2	15.6	0.2	(NA)	(NA)
228	Yarn and thread mills	E2	42	7	1.4	13.3	1.1	2.2	9.3	20.5	30.9	54.5	(D)	(NA)	(NA)
2281	Yarn mills, except wool	E1	17	4	1.1	10.7	0.8	1.7	7.4	15.8	22.8	41.7	(D)	(NA)	(NA)
229	Miscellaneous textile goods	E3	116	31	1.7	16.2	1.4	2.9	11.1	32.3	41.0	72.7	2.2	(NA)	(NA)
2299	Textile goods, n.e.c.	E4	74	17	1.0	8.3	0.8	1.6	6.1	17.4	22.5	39.4	1.5	(NA)	(NA)
23	Apparel and other textile products	E2	6 928	2 699	180.7	1 496.5	147.9	257.9	986.9	3 424.2	4 866.6	8 216.8	67.6	207.1	2 770.7
232	Men's and boys' furnishings	E1	423	178	18.5	144.1	14.1	25.3	89.8	347.0	599.8	917.7	12.0	(NA)	(NA)
2321	Men's and boys' shirts and nightwear	–	130	58	4.6	39.6	3.6	6.7	20.4	139.1	320.0	427.1	1.2	(NA)	(NA)
2323	Men's and boys' neckwear	E3	83	33	2.2	21.2	1.8	3.1	13.6	41.9	40.9	81.0	1.6	(NA)	(NA)
2327	Men's and boys' separate trousers	E1	92	31	7.5	52.3	5.2	8.8	34.1	107.8	157.7	267.6	3.5	(NA)	(NA)
2328	Men's and boys' work clothing	E3	23	14	0.6	4.4	0.5	0.9	3.5	8.6	11.0	19.8	0.2	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c.	E1	87	39	3.3	25.1	2.9	5.5	17.2	46.7	66.0	114.3	5.5	(NA)	(NA)
233	Women's and misses' outerwear	E2	3 626	1 590	94.0	764.6	77.1	132.4	499.2	1 857.3	2 493.3	4 319.2	34.2	(NA)	(NA)
2331	Women's and misses' blouses and waists	–	324	176	11.1	93.5	9.0	15.2	57.3	315.3	412.3	724.3	5.7	(NA)	(NA)
2335	Women's and misses' dresses	E3	2 179	832	47.3	364.6	39.2	67.3	244.5	770.7	932.2	1 693.5	15.7	(NA)	(NA)
2337	Women's and misses' suits and coats	E1	584	304	18.4	168.4	14.8	26.1	108.9	395.1	584.2	975.2	5.1	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	E2	539	278	17.3	138.1	14.1	23.8	88.5	376.1	564.6	926.2	7.6	(NA)	(NA)
234	Women's and children's undergarments	E1	304	151	10.3	84.1	8.1	14.2	47.1	198.3	304.7	501.5	1.9	(NA)	(NA)
2341	Women's and children's underwear	E1	247	123	7.9	64.4	6.2	10.7	37.0	152.7	248.5	398.5	1.4	(NA)	(NA)
2342	Brassieres and allied garments	–	57	28	2.4	19.7	1.9	3.5	10.1	45.6	56.2	103.0	0.5	(NA)	(NA)
235	Hats, caps, and millinery	E4	170	50	2.9	22.0	2.5	4.4	15.6	38.4	42.4	80.4	0.6	(NA)	(NA)
236	Children's outerwear	E1	284	149	9.8	75.4	8.1	14.6	51.6	167.3	239.5	406.0	2.1	(NA)	(NA)
2361	Children's dresses and blouses	E1	139	82	5.2	41.6	4.2	7.7	27.3	98.9	139.3	235.3	1.1	(NA)	(NA)
2363	Children's coats and suits	E1	42	18	1.2	10.0	1.0	1.7	6.9	21.0	34.3	54.6	0.4	(NA)	(NA)
2369	Children's outerwear, n.e.c.	E2	103	49	3.4	23.9	2.9	5.2	17.4	47.4	66.0	116.0	0.6	(NA)	(NA)
238	Miscellaneous apparel and accessories	E1	443	182	11.2	91.8	9.5	16.5	61.9	198.5	260.5	452.8	6.1	(NA)	(NA)
2384	Robes and dressing gowns	E1	66	41	3.1	23.8	2.6	4.5	16.5	63.9	84.9	146.1	1.5	(NA)	(NA)
2386	Leather and sheep lined clothing	E1	109	33	2.0	17.8	1.7	2.9	13.1	29.9	55.3	84.3	0.3	(NA)	(NA)
2387	Apparel belts	E1	137	52	3.1	24.9	2.6	4.3	15.8	47.2	46.8	92.4	0.9	(NA)	(NA)
239	Miscellaneous fabricated textile products	E2	996	289	20.8	179.6	17.5	31.3	122.6	343.4	507.3	848.8	7.9	(NA)	(NA)
2391	Curtains and draperies	–	132	33	2.2	19.9	1.9	3.3	13.7	47.0	101.1	147.6	0.4	(NA)	(NA)
2392	House furnishings, n.e.c.	E1	233	78	6.9	52.7	5.7	10.6	34.7	102.4	200.3	301.8	2.8	(NA)	(NA)
2394	Canvas and related products	E2	30	6	0.6	4.8	0.5	0.9	3.5	7.1	6.9	14.1	0.2	(NA)	(NA)
2395	Pleating and stitching	E2	231	71	4.6	38.8	3.9	6.8	26.5	73.7	77.4	150.0	1.8	(NA)	(NA)
2396	Automotive and apparel trimmings	E3	231	64	3.9	42.3	3.3	5.9	29.8	71.5	79.2	151.6	1.7	(NA)	(NA)
2399	Fabricated textile products, n.e.c.	E3	100	28	1.9	15.4	1.6	2.7	10.7	29.4	28.7	57.9	0.7	(NA)	(NA)
24	Lumber and wood products	E3	294	44	3.3	34.1	2.8	5.4	25.1	62.7	55.7	117.9	(D)	5.4	64.6
243	Millwork, plywood, and structural members	E3	105	18	1.4	15.5	1.1	2.1	11.7	26.8	26.4	53.1	1.3	(NA)	(NA)
2431	Millwork	E4	55	9	0.6	7.4	0.5	1.0	5.4	13.9	17.9	31.9	0.9	(NA)	(NA)
249	Miscellaneous wood products	E2	121	14	1.3	12.0	1.1	2.0	8.4	25.9	19.1	44.7	1.3	(NA)	(NA)
25	Furniture and fixtures	E2	642	142	12.1	129.5	9.7	18.6	89.6	229.9	203.0	429.7	8.9	14.8	204.7

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York—Con.													
25	Furniture and fixtures—Con.													
251	Household furniture	E4	345	60	4.7	43.2	4.0	7.4	30.6	74.5	77.7	151.3	3.4	(NA)	(NA)
2511	Wood household furniture	E4	166	27	2.0	16.9	1.8	3.4	12.9	29.5	26.2	55.0	2.0	(NA)	(NA)
2512	Upholstered household furniture	E5	62	7	0.6	6.2	0.5	0.9	4.5	10.4	7.6	17.9	0.3	(NA)	(NA)
2514	Metal household furniture	E3	56	14	1.2	11.6	1.0	1.9	7.6	20.2	24.1	44.3	0.7	(NA)	(NA)
2515	Mattresses and bedsprings	E3	44	10	0.6	7.0	0.5	0.9	4.4	11.2	16.8	27.9	0.2	(NA)	(NA)
252	Office furniture	E1	32	17	2.1	21.7	1.6	3.2	14.3	42.9	25.5	66.9	3.8	(NA)	(NA)
2522	Metal office furniture	E1	13	9	1.6	17.3	1.2	2.5	10.8	35.5	20.5	54.6	(D)	(NA)	(NA)
254	Partitions and fixtures	E1	163	50	4.1	50.7	3.3	6.3	36.1	83.1	66.5	148.9	(D)	(NA)	(NA)
2541	Wood partitions and fixtures	E1	90	29	2.2	29.9	1.8	3.4	21.9	44.4	30.1	74.3	(D)	(NA)	(NA)
2542	Metal partitions and fixtures	E1	73	21	1.9	20.7	1.5	2.9	14.2	38.7	36.3	74.6	0.5	(NA)	(NA)
259	Miscellaneous furniture and fixtures	E1	95	15	1.2	13.4	0.9	1.6	8.2	28.8	32.3	60.9	0.6	(NA)	(NA)
2591	Drapery hardware and blinds and shades	E2	61	7	0.6	6.2	0.5	0.9	3.9	13.8	13.2	26.9	0.4	(NA)	(NA)
2599	Furniture and fixtures, n.e.c.	E1	34	8	0.6	7.2	0.4	0.8	4.3	15.0	19.0	34.0	0.2	(NA)	(NA)
26	Paper and allied products	E2	370	164	15.3	179.5	12.0	23.6	117.6	345.7	391.4	735.5	23.1	17.9	264.9
264	Miscellaneous converted paper products	E3	238	87	8.4	101.3	6.6	12.9	65.6	204.1	250.3	452.9	14.8	(NA)	(NA)
2641	Paper coating and glazing	E6	22	7	0.6	9.3	0.5	1.0	6.3	13.8	17.8	31.6	0.5	(NA)	(NA)
2642	Envelopes	–	27	18	2.1	24.0	1.6	3.2	16.6	50.5	55.3	105.4	3.0	(NA)	(NA)
2643	Bags, except textile bags	E3	46	16	1.2	16.8	0.9	1.7	8.9	31.4	52.8	84.5	4.5	(NA)	(NA)
2645	Die-cut paper and board	E1	54	20	1.5	17.8	1.3	2.5	12.5	37.5	38.4	75.5	1.2	(NA)	(NA)
2648	Stationery products	E3	23	6	0.6	5.3	0.5	0.8	3.7	13.0	16.9	29.6	0.3	(NA)	(NA)
2649	Converted paper products, n.e.c.	E4	61	19	2.4	27.0	1.8	3.6	16.8	55.5	62.5	117.4	5.2	(NA)	(NA)
265	Paperboard containers and boxes	E1	128	75	6.8	76.8	5.4	10.5	51.0	138.2	136.8	274.8	7.6	(NA)	(NA)
2651	Folding paperboard boxes	E1	38	19	1.4	18.6	1.2	2.3	12.6	34.0	28.9	62.6	0.9	(NA)	(NA)
2652	Setup paperboard boxes	E3	32	24	2.0	17.0	1.7	3.1	12.0	29.5	19.1	48.8	1.2	(NA)	(NA)
2653	Corrugated and solid fiber boxes	E1	39	26	2.3	29.9	1.7	3.3	18.2	53.6	68.3	121.7	4.5	(NA)	(NA)
2655	Fiber cans, drums, and similar products	E1	11	3	0.6	6.8	0.5	1.1	5.0	10.8	7.7	18.5	0.7	(NA)	(NA)
27	Printing and publishing	–	3 882	754	99.7	1 598.4	40.6	73.7	592.8	4 650.2	2 561.7	7 223.4	112.6	112.9	3 124.8
2711	Newspapers	–	159	38	14.6	295.2	8.9	13.9	171.9	510.2	245.9	755.9	21.9	(NA)	(NA)
2721	Periodicals	–	440	120	23.6	406.9	1.6	3.0	27.5	1 689.4	1 039.6	2 718.9	21.5	(NA)	(NA)
273	Books	–	409	120	20.1	301.7	2.6	5.3	30.3	1 297.9	647.5	1 971.1	25.7	(NA)	(NA)
2731	Book publishing	–	305	92	18.1	275.2	1.2	2.6	13.2	1 253.9	616.2	1 891.6	23.4	(NA)	(NA)
2732	Book printing	E1	104	28	1.9	26.5	1.4	2.7	17.1	43.9	31.2	79.5	2.3	(NA)	(NA)
2741	Miscellaneous publishing	–	330	37	6.0	77.6	1.2	2.3	10.4	204.2	85.3	289.3	3.4	(NA)	(NA)
275	Commercial printing	E2	1 858	256	22.2	329.3	16.5	30.7	223.0	603.1	420.1	1 021.6	26.3	(NA)	(NA)
2751	Commercial printing, letterpress	E3	1 005	105	7.7	97.0	5.9	10.7	64.6	177.4	122.6	299.4	9.1	(NA)	(NA)
2752	Commercial printing, lithographic	E1	766	139	12.3	200.2	8.9	17.1	133.9	354.9	273.2	626.1	12.9	(NA)	(NA)
2753	Engraving and plate printing	–	54	11	2.0	28.8	1.5	2.5	21.9	64.7	19.5	85.3	3.7	(NA)	(NA)
2761	Manifold business forms	E1	33	9	0.7	9.5	0.5	1.0	4.6	21.9	17.4	39.0	0.5	(NA)	(NA)
2771	Greeting card publishing	E1	30	8	0.9	8.8	0.4	0.8	3.0	20.0	14.8	34.1	0.4	(NA)	(NA)
278	Blankbooks and bookbinding	E1	237	70	4.7	50.3	4.1	7.9	38.9	90.7	38.7	129.0	2.9	(NA)	(NA)
2782	Blankbooks and looseleaf binders	E1	53	24	1.5	13.1	1.3	2.4	9.4	26.3	20.1	46.4	0.9	(NA)	(NA)
2789	Bookbinding and related work	E1	184	46	3.3	37.2	2.8	5.5	29.5	64.4	18.6	82.6	2.1	(NA)	(NA)
279	Printing trade services	E1	386	96	6.9	119.2	4.8	8.8	83.2	212.8	52.4	264.4	9.9	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York—Con.													
27	Printing and publishing—Con.													
279	Printing trade services—Con.													
2791	Typesetting	E1	248	65	3.9	62.1	2.9	5.3	45.8	110.6	18.5	128.3	4.8	(NA)	(NA)
2793	Photoengraving	-	46	13	1.7	32.2	1.0	1.8	20.8	55.7	13.1	68.8	3.2	(NA)	(NA)
28	Chemicals and allied products	E1	414	100	10.7	146.4	7.5	14.6	83.2	590.3	518.3	1 098.5	85.5	13.2	514.8
283	Drugs	-	41	11	2.5	31.0	2.1	3.8	24.3	209.1	74.5	280.1	(D)	(NA)	(NA)
284	Soaps, cleaners, and toilet goods	E1	174	41	4.6	65.5	3.0	6.1	33.2	220.4	239.0	459.3	14.2	(NA)	(NA)
2841	Soap and other detergents	-	32	6	1.3	23.1	0.9	1.9	14.9	67.1	126.8	193.8	(D)	(NA)	(NA)
2842	Polishes and sanitation goods	-	47	14	1.0	11.4	0.6	1.2	5.2	55.6	44.8	100.4	(D)	(NA)	(NA)
2844	Toilet preparations	E2	88	19	2.2	28.7	1.5	2.9	12.6	93.6	62.2	156.0	3.9	(NA)	(NA)
2851	Paints and allied products	E2	79	20	1.3	16.3	0.8	1.6	8.3	47.7	63.4	110.3	2.2	(NA)	(NA)
286	Industrial organic chemicals	-	20	8	1.1	16.3	0.8	1.7	9.0	67.8	71.4	136.1	3.3	(NA)	(NA)
2869	Industrial organic chemicals, n.e.c.	-	12	6	0.7	11.5	0.6	1.2	6.1	51.6	46.1	95.5	2.6	(NA)	(NA)
289	Miscellaneous chemical products	E1	79	16	1.0	14.0	0.6	1.2	6.2	30.1	41.0	70.5	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E2	375	125	9.6	97.0	7.8	14.9	64.8	197.4	218.7	412.4	15.8	12.4	178.6
3079	Miscellaneous plastics products	E2	341	118	9.2	92.6	7.5	14.3	61.9	188.3	209.9	394.5	15.5	(NA)	(NA)
31	Leather and leather products	E2	464	192	16.3	123.9	14.1	25.3	87.3	249.1	234.6	480.8	(D)	21.7	216.2
314	Footwear, except rubber	E1	52	29	3.4	23.2	2.9	5.1	18.5	41.6	33.6	75.3	1.2	(NA)	(NA)
3142	House slippers	E1	12	7	0.9	6.0	0.8	1.4	4.6	11.0	10.1	21.2	0.1	(NA)	(NA)
3149	Footwear, except rubber, n.e.c.	E6	11	6	0.6	4.0	0.5	0.8	3.2	6.7	5.6	12.3	0.2	(NA)	(NA)
3161	Luggage	E2	60	33	3.1	25.2	2.7	4.7	16.9	48.4	43.4	90.8	0.5	(NA)	(NA)
317	Handbags and other personal leather goods	E2	239	115	8.5	65.0	7.4	13.6	44.8	139.5	132.8	271.0	(D)	(NA)	(NA)
3171	Women's handbags and purses	E2	173	84	6.6	49.6	5.8	10.8	35.6	108.4	103.9	211.8	(D)	(NA)	(NA)
3172	Personal leather goods	E2	66	31	2.0	15.4	1.6	2.9	9.2	31.0	28.9	59.1	(D)	(NA)	(NA)
3199	Leather goods, n.e.c.	E2	60	10	0.9	6.9	0.7	1.3	4.4	12.7	12.9	24.9	(D)	(NA)	(NA)
32	Stone, clay, and glass products	E2	258	49	4.1	46.7	3.2	6.2	31.9	102.4	91.9	193.6	7.2	6.2	105.7
3231	Products of purchased glass	E2	82	20	1.6	17.6	1.3	2.5	12.2	36.1	30.1	65.9	3.8	(NA)	(NA)
327	Concrete, gypsum, and plaster products	E1	62	9	0.7	10.6	0.6	1.1	7.8	20.8	26.7	47.4	1.0	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products	E2	61	14	1.3	14.2	1.0	2.0	9.2	36.3	30.5	66.5	2.1	(NA)	(NA)
3291	Abrasive products	E3	18	8	0.5	5.9	0.4	0.8	3.7	16.1	14.2	30.2	0.6	(NA)	(NA)
33	Primary metal industries	-	155	49	5.7	73.2	4.4	8.4	48.6	158.3	467.7	620.3	6.7	7.3	127.0
331	Blast furnace and basic steel products	E2	26	9	0.7	9.3	0.6	1.1	6.6	14.7	23.5	38.8	0.8	(NA)	(NA)
3341	Secondary nonferrous metals	-	24	5	1.1	17.7	0.8	1.5	10.7	54.0	256.1	300.7	3.1	(NA)	(NA)
335	Nonferrous rolling and drawing	-	24	12	1.8	21.5	1.3	2.5	13.9	42.2	147.6	193.4	0.6	(NA)	(NA)
3357	Nonferrous wire drawing and insulating	-	5	5	1.3	15.0	1.0	1.8	10.1	24.3	90.5	119.1	(D)	(NA)	(NA)
336	Nonferrous foundries	E1	41	13	1.1	10.5	0.9	1.7	7.1	20.3	17.6	37.0	1.0	(NA)	(NA)
3369	Nonferrous foundries, n.e.c.	E1	20	7	0.8	7.2	0.6	1.1	4.6	14.6	13.1	27.0	(D)	(NA)	(NA)
34	Fabricated metal products	E2	1 099	315	25.0	284.2	19.6	38.3	187.2	558.5	472.5	1 019.9	25.5	30.6	469.9
342	Cutlery, hand tools, and hardware	E1	67	24	2.5	30.0	2.0	3.9	19.9	72.5	43.1	111.2	5.3	(NA)	(NA)
3421	Cutlery	-	5	3	0.5	4.8	0.4	0.8	3.1	13.6	6.9	18.5	(D)	(NA)	(NA)
3429	Hardware, n.e.c.	E1	45	14	1.7	21.1	1.3	2.5	14.1	52.0	31.3	81.2	2.4	(NA)	(NA)
344	Fabricated structural metal products	E1	322	76	6.3	79.1	4.5	9.0	49.5	151.2	129.4	280.9	5.2	(NA)	(NA)
3442	Metal doors, sash, and trim	E2	64	21	2.1	21.0	1.5	3.0	15.1	32.5	36.9	69.2	0.9	(NA)	(NA)
3444	Sheet metal work	E2	87	29	2.0	25.7	1.4	2.7	15.6	50.4	38.4	89.4	2.4	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York—Con.														
34	Fabricated metal products—Con.														
344	Fabricated structural metal products—Con.														
3446	Architectural metal work	E2	70	11	0.8	10.0	0.5	1.0	6.3	18.4	12.0	30.6	0.7	(NA)	(NA)
345	Screw machine products, bolts, etc.	E2	44	18	1.5	17.8	1.2	2.3	11.8	28.0	29.4	56.4	1.5	(NA)	(NA)
3451	Screw machine products	E3	28	11	0.7	8.1	0.6	1.3	6.0	14.5	11.6	26.0	0.5	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers	E1	16	7	0.8	9.7	0.6	1.1	5.8	13.6	17.8	30.4	0.9	(NA)	(NA)
346	Metal forgings and stampings	E1	124	50	4.1	48.4	3.3	6.5	31.7	103.7	100.5	202.7	5.1	(NA)	(NA)
347	Metal services, n.e.c.	E3	262	61	4.5	40.3	3.9	7.3	28.6	72.4	34.7	106.6	2.6	(NA)	(NA)
3471	Plating and polishing	E3	189	50	3.8	33.7	3.3	6.2	24.0	62.4	27.4	89.3	2.3	(NA)	(NA)
3479	Metal coating and allied services	E3	73	11	0.7	6.6	0.6	1.1	4.6	10.1	7.4	17.3	0.3	(NA)	(NA)
349	Miscellaneous fabricated metal products	E1	236	71	5.2	57.6	4.1	8.0	37.9	109.4	107.2	211.1	5.3	(NA)	(NA)
3496	Miscellaneous fabricated wire products	E2	69	18	1.5	15.3	1.2	2.5	10.8	27.4	25.4	52.6	1.2	(NA)	(NA)
3498	Fabricated pipe and fittings	–	15	10	1.0	13.0	0.7	1.4	8.0	23.2	30.1	51.5	1.2	(NA)	(NA)
3499	Fabricated metal products, n.e.c.	E3	123	32	1.9	19.9	1.5	2.9	12.7	37.5	34.2	70.8	1.7	(NA)	(NA)
35	Machinery, except electrical	E1	782	129	13.7	175.1	9.9	18.6	102.8	336.2	263.8	597.1	24.4	17.7	296.3
353	Construction and related machinery	E2	33	8	0.7	10.8	0.5	1.0	6.4	23.3	16.7	38.7	0.4	(NA)	(NA)
354	Metalworking machinery	E3	185	23	1.7	22.3	1.4	2.7	15.5	37.2	16.1	53.7	2.0	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures	E2	142	17	1.3	17.5	1.1	2.2	12.6	28.1	12.3	40.0	1.7	(NA)	(NA)
355	Special industry machinery	E2	149	32	3.2	42.9	1.9	3.6	21.0	75.8	53.2	126.4	4.5	(NA)	(NA)
3551	Food products machinery	E6	22	6	0.5	7.5	0.3	0.7	3.3	14.1	9.6	23.5	1.0	(NA)	(NA)
3552	Textile machinery	–	26	5	0.7	8.2	0.3	0.6	3.2	17.3	11.0	28.1	(D)	(NA)	(NA)
3555	Printing trades machinery	E2	59	10	0.7	10.2	0.5	1.0	6.2	15.3	14.0	29.1	0.6	(NA)	(NA)
3559	Special industry machinery, n.e.c.	E2	34	7	0.5	6.0	0.3	0.6	3.8	10.2	6.9	17.0	0.3	(NA)	(NA)
356	General industrial machinery	E1	90	22	1.7	21.4	1.1	2.1	12.4	39.9	33.3	72.1	1.8	(NA)	(NA)
3569	General industrial machinery, n.e.c.	–	44	13	1.0	12.6	0.6	1.2	7.1	23.3	21.7	44.2	0.7	(NA)	(NA)
357	Office and computing machines	–	21	6	2.5	28.4	1.9	3.7	15.5	65.2	77.6	144.6	1.8	(NA)	(NA)
358	Refrigeration and service machinery	E1	61	16	1.9	22.2	1.4	2.4	13.5	43.2	45.2	87.3	(D)	(NA)	(NA)
3585	Refrigeration and heating equipment	E1	27	10	1.0	11.9	0.8	1.3	7.9	22.7	27.9	49.6	1.5	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	241	21	2.1	26.7	1.7	3.1	18.3	50.8	20.8	72.8	11.7	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E2	239	20	2.1	26.4	1.7	3.0	18.0	50.4	20.8	72.3	11.7	(NA)	(NA)
36	Electric and electronic equipment	E1	590	176	24.3	279.4	16.4	31.6	147.3	666.4	478.5	1 118.1	20.7	30.2	501.2
361	Electric distributing equipment	E2	16	8	0.7	7.6	0.4	0.8	4.6	11.8	11.7	23.1	0.2	(NA)	(NA)
362	Electrical industrial apparatus	–	22	6	1.3	21.5	0.4	0.7	4.0	36.5	25.2	61.0	1.2	(NA)	(NA)
363	Household appliances	E2	53	16	1.1	11.7	0.9	1.7	7.7	25.1	19.0	44.4	0.7	(NA)	(NA)
3636	Sewing machines	E5	31	10	0.5	6.1	0.3	0.7	4.0	10.8	6.1	16.9	0.4	(NA)	(NA)
364	Electric lighting and wiring equipment	E1	159	56	8.0	84.5	6.3	12.4	54.4	186.8	158.3	330.9	5.6	(NA)	(NA)
3645	Residential lighting fixtures	E1	94	30	2.0	20.1	1.6	2.9	12.8	42.7	42.1	84.9	0.8	(NA)	(NA)
3646	Commercial lighting fixtures	E4	10	8	0.6	7.0	0.5	0.9	4.5	13.2	13.2	26.5	0.2	(NA)	(NA)
365	Radio and TV receiving equipment	E1	143	25	3.0	31.0	2.1	4.0	16.8	148.4	97.4	227.5	1.9	(NA)	(NA)
3651	Radio and TV receiving sets	–	29	6	1.2	9.9	0.8	1.6	6.3	41.7	50.9	75.1	0.4	(NA)	(NA)
3652	Phonograph records and prerecorded tape	E1	114	19	1.8	21.2	1.3	2.4	10.5	106.7	46.6	152.4	1.5	(NA)	(NA)
366	Communication equipment	–	52	21	4.0	58.6	2.0	4.0	25.3	126.8	72.4	198.6	2.6	(NA)	(NA)
367	Electronic components and accessories	E2	94	24	3.5	34.5	2.5	4.5	19.3	66.5	38.1	103.8	2.5	(NA)	(NA)
3677	Electronic coils and transformers	–	6	4	0.6	6.2	0.4	0.8	2.7	9.0	3.1	11.9	(D)	(NA)	(NA)
3678	Electronic connectors	–	4	3	0.8	6.7	0.6	1.0	4.0	13.3	7.2	19.4	(D)	(NA)	(NA)
3679	Electronic components, n.e.c.	E2	72	13	1.8	18.6	1.3	2.5	11.2	38.3	24.8	63.8	1.7	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New York—Con.														
36	Electric and electronic equipment—Con.														
369	Miscellaneous electrical equipment and supplies	E1	51	20	2.8	30.0	1.9	3.5	15.4	64.5	56.4	128.7	(D)	(NA)	(NA)
3699	Electrical equipment and supplies, n.e.c.	E1	29	10	0.7	5.6	0.5	0.9	3.4	16.3	17.5	33.7	0.5	(NA)	(NA)
37	Transportation equipment	E1	128	50	6.7	87.8	5.5	10.9	67.3	156.5	119.6	276.1	4.3	7.6	117.1
372	Aircraft and parts	E2	15	7	0.7	9.6	0.5	1.1	6.4	18.7	7.9	26.4	0.6	(NA)	(NA)
38	Instruments and related products	E1	317	96	11.0	123.3	7.8	15.3	69.9	243.1	225.4	464.2	7.8	15.5	248.8
382	Measuring and controlling devices	E2	40	16	1.1	11.5	0.8	1.5	6.6	21.9	10.8	32.4	0.7	(NA)	(NA)
3842	Surgical appliances and supplies	E2	37	10	0.7	6.8	0.5	1.0	4.1	13.6	10.9	24.3	0.4	(NA)	(NA)
3843	Dental equipment and supplies	–	40	8	0.7	8.4	0.4	0.8	3.8	20.7	13.4	33 4	0.6	(NA)	(NA)
3851	Ophthalmic goods	E2	45	16	1.7	15.8	1.4	2.6	9.8	30.2	18.0	47.1	1.2	(NA)	(NA)
3873	Watches, clocks, and watchcases	–	53	22	4.1	48.6	2.9	5.8	28.1	86.3	121.9	203.1	1.7	(NA)	(NA)
39	Miscellaneous manufacturing industries	E1	2 422	550	46.7	471.9	35.9	64.8	281.7	1 061.6	1 336.8	2 372.9	28.4	54.6	810.0
391	Jewelry, silverware, and plated ware	E1	959	188	14.6	173.2	10.2	18.4	91.5	417.1	799.8	1 197.6	(D)	(NA)	(NA)
3911	Jewelry, precious metal	E1	703	161	12.2	146.3	8.4	15.1	76.6	332.3	535.2	864.0	7.1	(NA)	(NA)
3914	Silverware and plated ware	E2	25	8	0.6	5.4	0.5	0.9	4.0	9.2	8.5	17.5	(D)	(NA)	(NA)
3915	Jewelers' materials and lapidary work	E1	231	19	1.8	21.4	1.4	2.4	10.9	75.6	256.1	316.1	1.1	(NA)	(NA)
3931	Musical instruments	E1	18	6	1.0	9.5	0.8	1.5	6.9	17.6	8.2	26.3	0.4	(NA)	(NA)
394	Toys and sporting goods	E1	187	69	9.9	79.1	8.1	13.9	47.4	194.9	160.4	350.9	6.6	(NA)	(NA)
3944	Games, toys, and children's vehicles	E1	63	24	5.3	47.9	4.0	7.5	25.5	124.7	84.9	206.6	4.7	(NA)	(NA)
3949	Sporting and athletic goods, n.e.c.	E2	27	9	0.8	6.3	0.7	1.2	4.5	10.5	20.6	32.1	0.6	(NA)	(NA)
395	Pens, pencils, office and art supplies	E1	80	24	2.0	21.0	1.5	2.9	12.4	44.6	49.8	92.9	1.2	(NA)	(NA)
3951	Pens and mechanical pencils	E3	21	10	0.7	5.6	0.5	1.0	4.0	14.2	11.5	25.7	0.5	(NA)	(NA)
3952	Lead pencils and art goods	–	17	7	0.8	9.0	0.5	1.1	5.1	19.1	24.2	42.0	0.4	(NA)	(NA)
396	Costume jewelry and notions	E1	396	109	8.1	69.2	6.6	12.0	44.8	141.5	124.3	265.8	4.0	(NA)	(NA)
3961	Costume jewelry	E1	184	48	3.2	27.1	2.6	4.6	16.7	59.6	46.1	103.9	1.6	(NA)	(NA)
3962	Artificial flowers	–	43	14	1.0	8.2	0.8	1.5	5.4	17.2	21.4	38.4	0.2	(NA)	(NA)
3963	Buttons	E2	79	15	1.1	10.7	0.9	1.5	6.6	15.1	12.1	29.0	0.3	(NA)	(NA)
3964	Needles, pins, and fasteners	E1	90	32	2.8	23.2	2.3	4.4	16.2	49.7	44.8	94.4	1.9	(NA)	(NA)
399	Miscellaneous manufactures	E2	782	154	11.1	120.0	8.7	16.1	78.6	245.9	194.3	439.4	7.9	(NA)	(NA)
3991	Brooms and brushes	E2	29	13	1.0	8.8	0.7	1.4	5.6	24.5	20.3	44.3	1.5	(NA)	(NA)
3993	Signs and advertising displays	E2	210	58	4.1	45.7	3.1	5.9	28.8	82.5	57.3	139.8	2.6	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	E2	528	79	5.8	62.8	4.7	8.5	42.5	134.0	108.5	242.1	3.6	(NA)	(NA)
--	Administrative and auxiliary	–	646	355	70.4	1 671.9	–	–	–	–	–	–	–	(NA)	(NA)
	Niagara Falls	–	**91**	**42**	**10.7**	**176.0**	**7.1**	**14.6**	**107.2**	**512.5**	**430.3**	**928.6**	**75.9**	**11.8**	**264.7**
28	Chemicals and allied products	–	12	9	3.3	58.5	2.3	4.4	37.1	221.3	164.9	388.9	62.5	4.4	107.7
2869	Industrial organic chemicals, n.e.c.	–	4	4	0.5	7.8	0.3	0.6	4.6	21.3	44.0	66.5	3.2	(NA)	(NA)
36	Electric and electronic equipment	–	4	4	2.4	38.3	1.9	3.9	28.5	118.1	55.6	162.1	7.4	2.3	48.1
362	Electrical industrial apparatus	–	4	4	2.4	38.3	1.9	3.9	28.5	118.1	55.6	162.1	7.4	(NA)	(NA)
--	Administrative and auxiliary	–	8	7	1.1	22.7	–	–	–	–	–	–	–	(NA)	(NA)
	Norwich	–	**21**	**9**	**1.6**	**19.8**	**0.9**	**1.9**	**6.9**	**11.1**	**18.0**	**33.9**	**0.7**	**3.2**	**71.0**
	Nyack	–	**12**	**6**	**0.5**	**4.5**	**0.3**	**0.5**	**2.4**	**8.4**	**12.7**	**21.2**	**0.3**	**0.8**	**8.2**
	Oceanside (U)	–	**77**	**21**	**1.3**	**13.9**	**0.9**	**1.7**	**8.7**	**30.9**	**23.3**	**53.8**	**1.8**	**1.1**	**20.8**

See footnotes at end of table.

Table 8. **Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972**—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Ogdensburg	-	21	7	0.8	7.6	0.6	1.3	5.7	22.6	16.6	38.3	1.6	0.9	12.6
	Olean	-	35	17	4.9	66.2	3.2	5.8	39.6	184.1	118.8	304.0	6.1	4.0	78.7
	Oneida	-	27	12	0.9	11.3	0.5	1.0	4.4	14.1	45.1	57.4	2.1	0.9	10.0
	Oneonta	-	16	7	0.5	4.4	0.4	0.8	2.9	9.6	13.1	22.2	0.8	0.9	12.0
	Ossining	-	35	12	0.9	11.7	0.7	1.3	6.1	18.5	17.0	34.8	1.9	1.1	14.4
	Patchogue	-	46	12	0.7	6.1	0.6	1.0	4.6	17.1	22.0	39.3	0.6	1.1	11.5
	Peekskill	-	43	14	1.2	12.1	0.9	1.7	7.6	32.8	19.6	53.4	2.1	(D)	(D)
	Pelham Manor	-	20	6	1.0	9.3	0.6	0.8	3.9	22.6	29.7	50.7	0.7	1.6	29.4
	Plainview (U)	-	118	59	4.8	58.5	3.1	5.8	29.2	126.2	95.4	218.9	6.2	7.4	117.6
34	Fabricated metal products	E1	15	9	0.6	6.8	0.4	0.9	4.2	18.4	11.3	29.7	0.5	0.7	10.3
36	Electric and electronic equipment	E1	23	14	1.7	19.2	1.1	2.1	9.5	39.9	33.4	71.2	2.3	2.4	45.8
367	Electronic components and accessories	E1	10	6	0.6	7.0	0.4	1.0	3.9	16.2	6.3	21.5	0.9	(NA)	(NA)
38	Instruments and related products	-	8	5	0.6	7.4	0.3	0.7	3.7	13.9	7.2	20.4	0.3	0.7	10.7
	Plattsburgh	-	37	12	1.9	23.3	1.5	2.9	17.0	51.8	71.9	120.8	4.4	1.8	28.8
	Port Chester	-	74	18	2.1	23.1	1.6	3.1	14.6	86.5	42.9	129.3	4.1	3.0	60.8
	Port Jervis	-	27	11	1.8	14.6	1.2	2.3	10.0	24.7	12.9	37.9	0.9	1.9	17.3
	Poughkeepsie	-	66	23	2.5	26.6	2.1	4.0	19.8	51.2	31.2	83.3	1.8	4.2	56.9
	Rochester	-	621	207	86.5	1 506.8	46.7	90.9	704.1	3 456.1	1 606.0	5 053.3	223.2	89.9	2 393.3
20	Food and kindred products	-	42	19	2.9	40.1	1.8	3.8	22.9	165.5	212.7	378.5	11.6	4.1	137.4
265	Paperboard containers and boxes	-	8	8	0.5	6.3	0.4	0.8	4.0	12.0	18.7	30.8	(D)	(NA)	(NA)
27	Printing and publishing	-	120	27	5.2	77.0	3.0	5.2	39.6	154.7	74.4	225.8	12.4	5.0	100.2
275	Commercial printing	-	76	15	1.7	30.0	1.1	2.1	18.2	46.9	43.8	89.4	(D)	(NA)	(NA)
2752	Commercial printing, lithographic	-	43	11	1.4	27.3	1.0	1.8	16.5	41.6	41.8	82.0	3.6	(NA)	(NA)
28	Chemicals and allied products	-	16	5	0.7	11.0	0.4	0.9	5.7	50.7	31.4	80.7	2.4	(NA)	(NA)
342	Cutlery, hand tools, and hardware	-	6	4	0.6	7.1	0.5	0.9	3.9	17.0	12.1	28.9	(D)	(NA)	(NA)
344	Fabricated structural metal products	E1	26	7	1.3	19.8	0.7	1.3	9.0	31.9	20.4	52.3	1.3	(NA)	(NA)
35	Machinery, except electrical	-	134	38	12.8	235.5	9.1	19.1	156.9	460.1	228.2	662.7	52.2	11.7	261.0
354	Metalworking machinery	-	61	19	4.4	74.7	3.3	6.7	49.1	130.5	39.5	161.3	(D)	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures	E3	44	12	0.7	9.6	0.6	1.3	7.1	15.9	6.2	22.0	1.7	(NA)	(NA)
357	Office and computing machines	-	8	3	0.7	9.6	0.4	0.7	4.2	34.4	8.6	40.9	1.4	(NA)	(NA)
366	Communication equipment	-	4	4	5.2	78.6	2.4	3.8	24.5	125.8	54.4	188.8	5.2	(NA)	(NA)
38	Instruments and related products	-	46	23	40.9	757.7	19.5	37.8	322.4	2 110.9	719.7	2 852.0	(D)	38.7	1 489.4
39	Miscellaneous manufacturing industries	-	20	7	0.9	9.5	0.6	1.1	5.4	16.1	13.0	29.6	0.7	1.0	16.9
	Rockville Centre	-	35	6	0.5	5.6	0.4	0.8	3.5	10.9	8.9	19.8	1.1	0.5	10.2
	Rome	-	55	19	4.6	67.0	3.4	6.7	47.0	129.0	247.5	368.2	6.4	4.7	90.2
33	Primary metal industries	-	5	5	2.8	41.9	2.1	4.3	31.8	84.5	196.2	275.0	4.8	2.9	62.2
	Saratoga Springs	-	21	9	0.9	8.6	0.5	0.9	4.1	13.9	31.6	45.5	0.9	1.2	22.9

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Springville	–	**11**	**4**	**0.7**	**8.7**	**0.5**	**1.0**	**5.7**	**19.6**	**12.3**	**31.1**	**1.0**	**0.5**	**6.6**
	Syracuse	–	**259**	**89**	**19.7**	**304.5**	**11.2**	**21.4**	**149.5**	**569.3**	**388.1**	**954.1**	**24.9**	**25.7**	**471.4**
20	Food and kindred products	–	25	10	1.1	13.2	0.5	0.9	6.0	39.8	57.5	97.4	(D)	1.4	32.3
202	Dairy products	–	6	5	0.5	5.2	0.2	0.4	2.1	14.1	40.3	54.4	0.6	(NA)	(NA)
27	Printing and publishing	–	65	13	1.3	16.1	0.7	1.1	7.3	41.5	17.6	59.0	(D)	1.6	33.4
35	Machinery, except electrical	–	42	13	2.0	28.2	1.3	2.7	16.3	46.5	36.6	84.0	(D)	2.3	47.6
36	Electric and electronic equipment	–	9	7	7.0	121.7	3.0	5.9	43.7	207.0	66.9	273.0	(D)	9.5	183.6
39	Miscellaneous manufacturing industries	–	14	4	0.6	6.7	0.5	0.8	3.9	11.8	8.3	20.0	(D)	(NA)	(NA)
399	Miscellaneous manufactures	–	11	4	0.6	6.6	0.4	0.8	3.8	11.7	8.3	19.7	(D)	(NA)	(NA)
	Tonawanda	–	**52**	**20**	**1.7**	**23.8**	**1.1**	**2.0**	**11.6**	**39.3**	**43.8**	**82.7**	**2.0**	**13.3**	**301.6**
	Troy	–	**53**	**17**	**2.9**	**32.5**	**1.8**	**3.2**	**16.9**	**63.2**	**54.0**	**118.1**	**2.2**	**4.7**	**65.3**
	Tuckahoe	–	**21**	**7**	**0.7**	**7.7**	**0.5**	**0.9**	**4.2**	**16.1**	**13.4**	**29.2**	**1.6**	**0.5**	**7.9**
	Utica	–	**118**	**43**	**7.0**	**79.0**	**4.7**	**8.6**	**45.2**	**159.1**	**159.6**	**313.7**	**8.2**	**7.1**	**139.3**
20	Food and kindred products	–	23	8	0.7	8.4	0.5	1.0	4.8	18.3	49.8	67.7	1.2	0.8	16.6
27	Printing and publishing	–	25	5	0.5	5.6	0.2	0.4	2.3	12.7	3.6	16.3	(D)	0.6	9.3
34	Fabricated metal products	–	6	4	0.6	6.3	0.5	1.0	4.4	10.6	14.3	24.7	0.4	0.7	8.9
	Valley Stream	–	**91**	**13**	**1.1**	**12.8**	**0.8**	**1.6**	**7.8**	**22.7**	**14.7**	**37.2**	**1.3**	**1.1**	**15.0**
	Walden	–	**22**	**12**	**0.9**	**8.5**	**0.7**	**1.4**	**5.8**	**19.3**	**15.7**	**34.6**	**0.8**	**0.9**	**16.1**
	Watervliet	–	**18**	**7**	**1.8**	**25.3**	**1.3**	**2.6**	**16.6**	**34.9**	**51.2**	**93.2**	**(D)**	**4.6**	**69.9**
	Westbury	–	**42**	**9**	**0.7**	**8.9**	**0.5**	**1.0**	**5.8**	**17.8**	**21.7**	**39.1**	**1.8**	**1.2**	**20.0**
	Westfield	–	**15**	**7**	**1.0**	**14.0**	**0.5**	**0.9**	**4.8**	**17.3**	**24.7**	**43.0**	**1.5**	**0.9**	**10.6**
	West Haverstraw	–	**23**	**7**	**0.6**	**5.9**	**0.5**	**0.9**	**4.2**	**11.1**	**8.4**	**19.7**	**0.2**	**0.6**	**6.5**
	White Plains	–	**85**	**26**	**11.2**	**218.9**	**0.9**	**1.6**	**9.2**	**57.3**	**32.7**	**89.2**	**1.6**	**5.4**	**18.6**
--	Administrative and auxiliary	–	18	11	9.0	194.8	–	–	–	–	–	–	–	(NA)	(NA)
	Yonkers	–	**248**	**75**	**8.9**	**116.8**	**5.2**	**10.3**	**52.3**	**242.1**	**320.7**	**570.9**	**14.0**	**12.5**	**202.5**
233	Women's and misses' outerwear	E1	22	12	0.9	7.1	0.7	1.1	4.2	10.2	11.7	22.0	0.3	(NA)	(NA)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
– Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NEW YORK	36578	1852	13	1243	7797	1119	1028	759	6301	939	169	909	657	912	466	2542	2871	1527	430	854	3170	1020
1 TO 4 EMPLOYEES	13589	695	8	289	2211	555	401	161	3243	364	72	254	179	383	107	891	1240	507	176	303	1414	136
5 TO 9 EMPLOYEES	5726	290	1	185	1076	204	185	85	1025	144	47	152	86	164	60	407	527	221	66	123	557	121
10 TO 19 EMPLOYEES	5838	254	-	245	1428	176	185	112	829	136	21	145	97	154	76	464	468	218	54	116	478	182
20 TO 49 EMPLOYEES	6199	271	2	303	2043	116	134	170	695	142	23	173	128	111	81	436	345	201	44	139	426	216
50 TO 99 EMPLOYEES	2665	162	1	119	691	42	65	101	285	57	3	111	92	39	48	182	120	144	32	68	170	133
100 TO 249 EMPLOYEES	1693	121	1	81	288	25	49	91	145	55	2	49	49	32	54	113	89	133	28	67	96	125
250 TO 499 EMPLOYEES	507	41	-	17	49	1	5	31	35	18	1	22	22	16	19	35	34	53	12	18	19	59
500 TO 999 EMPLOYEES	206	13	-	4	6	-	4	7	25	15	-	2	4	12	13	8	26	24	5	9	6	23
1000 TO 2499 EMPLOYEES	107	5	-	-	4	-	-	1	13	7	-	1	-	1	6	5	16	13	6	7	4	18
2500 EMPLOYEES AND OVER	48	-	-	-	1	-	-	-	6	1	-	-	-	-	2	1	6	13	7	4	-	7
ALBANY COUNTY	286	40	-	7	17	8	5	6	71	14	5	9	-	20	4	23	17	4	5	7	11	13
1 TO 19 EMPLOYEES	185	22	-	2	8	6	4	2	59	9	4	6	-	13	-	16	9	2	1	5	7	10
20 TO 99 EMPLOYEES	66	13	-	3	6	2	1	1	7	4	1	2	-	3	2	5	6	2	2	-	3	3
100 TO 249 EMPLOYEES	17	3	-	1	2	-	-	1	3	-	-	-	-	-	-	2	2	-	1	1	1	-
250 EMPLOYEES AND OVER	18	2	-	1	1	-	-	2	2	1	-	1	-	4	2	-	-	-	1	1	-	-
ALLEGANY COUNTY	47	8	-	-	1	1	-	-	11	1	-	-	-	1	2	7	11	2	-	-	1	1
1 TO 19 EMPLOYEES	35	4	-	-	1	1	-	-	11	1	-	-	-	1	1	5	9	-	-	-	-	1
20 TO 99 EMPLOYEES	7	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	1	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-
BRONX COUNTY	1136	95	-	27	305	25	77	17	69	40	2	46	18	23	14	150	77	39	10	13	78	11
1 TO 19 EMPLOYEES	741	66	-	14	186	22	59	10	59	26	1	23	6	19	8	92	57	22	7	8	49	7
20 TO 99 EMPLOYEES	343	23	-	12	114	3	14	4	7	13	1	21	9	3	6	50	18	13	3	4	23	2
100 TO 249 EMPLOYEES	34	4	-	1	4	-	3	2	1	1	-	-	1	1	-	6	2	3	-	1	3	1
250 EMPLOYEES AND OVER	18	2	-	-	1	-	1	1	2	-	-	2	2	-	-	2	-	1	-	-	3	1
BROOME COUNTY	276	27	-	2	9	10	6	3	56	4	4	17	10	12	1	21	39	20	2	12	10	11
1 TO 19 EMPLOYEES	168	16	-	-	5	8	3	1	44	3	4	7	2	9	-	11	26	9	2	7	9	2
20 TO 99 EMPLOYEES	63	9	-	2	2	1	2	1	10	-	-	7	4	3	-	4	7	4	-	-	1	6
100 TO 249 EMPLOYEES	23	1	-	-	1	1	-	1	-	1	-	2	1	-	1	5	1	4	-	1	-	3
250 EMPLOYEES AND OVER	22	1	-	-	1	-	1	-	2	-	-	1	3	-	-	1	5	3	-	4	-	-
CATTARAUGUS COUNTY	132	16	-	-	-	21	5	2	12	5	2	6	2	8	2	15	21	5	1	1	2	6
1 TO 19 EMPLOYEES	77	11	-	-	-	12	1	-	7	1	2	4	1	7	1	8	14	-	1	1	2	4
20 TO 99 EMPLOYEES	35	4	-	-	-	6	1	2	4	3	-	2	-	-	1	4	5	1	-	-	-	2
100 TO 249 EMPLOYEES	14	1	-	-	-	3	3	-	1	1	-	-	-	-	-	3	1	1	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	3	-	-	-	-
CAYUGA COUNTY	104	12	-	1	1	12	-	2	15	4	1	7	2	9	3	9	12	5	2	1	2	4
1 TO 19 EMPLOYEES	71	8	-	-	1	11	-	1	11	4	1	2	-	7	-	7	9	4	2	-	1	2
20 TO 99 EMPLOYEES	21	2	-	-	-	1	-	1	3	-	-	3	1	2	2	2	1	-	-	-	1	2
100 TO 249 EMPLOYEES	6	2	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	-	-	1	-	-
250 EMPLOYEES AND OVER	6	-	-	1	-	-	-	-	-	-	-	1	1	-	-	-	2	1	-	-	-	-
CHAUTAUQUA COUNTY	299	41	-	2	3	36	36	3	22	6	3	6	-	11	13	39	50	7	3	2	8	8
1 TO 19 EMPLOYEES	193	22	-	1	1	30	18	2	16	5	3	4	-	9	6	23	34	3	2	-	8	6
20 TO 99 EMPLOYEES	62	11	-	1	1	5	8	1	4	1	-	2	-	-	4	9	11	3	-	-	-	1
100 TO 249 EMPLOYEES	21	4	-	-	-	1	10	-	-	-	-	-	-	-	2	1	1	-	-	2	-	-
250 EMPLOYEES AND OVER	23	4	-	-	1	-	-	-	2	-	-	-	-	2	1	6	4	1	1	-	-	1
CHEMUNG COUNTY	119	19	-	-	3	2	2	4	14	2	1	1	-	10	5	18	17	5	5	1	4	6
1 TO 19 EMPLOYEES	64	10	-	-	3	1	2	2	9	1	1	-	-	5	1	11	10	2	1	1	3	1
20 TO 99 EMPLOYEES	24	3	-	-	-	-	-	-	3	1	-	1	-	3	3	5	3	-	-	-	1	1
100 TO 249 EMPLOYEES	15	3	-	-	-	1	-	2	1	-	-	-	-	-	-	-	3	1	1	-	-	3
250 EMPLOYEES AND OVER	16	3	-	-	-	-	-	-	1	-	-	-	-	2	1	2	1	2	3	-	-	1
CHENANGO COUNTY	84	12	-	3	-	18	-	1	11	4	2	3	3	4	1	6	7	5	1	2	-	1
1 TO 19 EMPLOYEES	57	8	-	1	-	16	-	-	6	1	2	2	1	3	1	4	6	4	-	2	-	-
20 TO 99 EMPLOYEES	12	3	-	-	-	2	-	1	5	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	9	1	-	2	-	-	-	-	-	2	-	1	-	-	-	2	-	1	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	1	-	1	-	-	1
CLINTON COUNTY	79	7	-	3	3	13	3	6	7	4	2	5	-	4	3	3	4	3	1	1	4	3
1 TO 19 EMPLOYEES	54	5	-	2	3	13	2	3	5	1	1	1	-	4	1	2	3	2	1	1	4	-
20 TO 99 EMPLOYEES	18	2	-	1	-	-	1	-	1	2	1	3	-	-	2	1	-	1	-	-	-	3
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	3	-	1	-	-	-	-	-	-	1	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
COLUMBIA COUNTY.	86	9	1	3	13	4	1	3	12	3	1	3	-	9	-	4	11	5	-	-	3	1
1 TO 19 EMPLOYEES.	55	6	-	1	6	3	-	1	10	2	1	1	-	7	-	3	10	4	-	-	-	-
20 TO 99 EMPLOYEES	22	3	1	-	6	1	-	1	2	1	-	1	-	1	-	1	-	1	-	-	2	1
100 TO 249 EMPLOYEES	8	-	-	2	1	-	1	1	-	-	-	1	-	1	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER . . .	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
CORTLAND COUNTY.	64	8	-	1	5	9	1	2	9	2	2	2	-	2	1	5	8	1	3	1	2	-
1 TO 19 EMPLOYEES.	40	7	-	-	1	6	-	2	8	1	1	-	-	2	1	5	3	-	1	1	1	-
20 TO 99 EMPLOYEES	11	1	-	-	2	2	1	-	1	1	1	2	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-
250 EMPLOYEES AND OVER . . .	6	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	1	-
DELAWARE COUNTY.	74	11	-	-	1	27	2	-	6	2	-	2	1	3	1	1	9	3	1	3	-	1
1 TO 19 EMPLOYEES.	52	8	-	-	1	21	1	-	3	1	-	1	1	3	1	1	7	1	-	2	-	-
20 TO 99 EMPLOYEES	12	1	-	-	-	6	-	-	2	1	-	-	-	-	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	6	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1
250 EMPLOYEES AND OVER . . .	4	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	1	-	1	-	-
DUTCHESS COUNTY.	229	18	-	3	13	12	7	4	38	6	5	5	4	16	2	18	32	23	4	8	5	6
1 TO 19 EMPLOYEES.	144	14	-	-	2	10	3	1	26	6	3	-	2	14	2	13	21	13	3	5	4	2
20 TO 99 EMPLOYEES	53	3	-	1	10	2	2	1	6	-	2	1	2	1	-	5	6	4	1	2	1	3
100 TO 249 EMPLOYEES	22	1	-	2	1	-	2	-	5	-	-	2	-	1	-	-	2	5	-	1	-	-
250 EMPLOYEES AND OVER . . .	10	-	-	-	-	-	-	2	1	-	-	2	-	-	-	-	3	1	-	-	-	1
ERIE COUNTY.	1405	145	-	8	42	39	29	41	206	68	17	54	10	62	44	175	217	59	39	41	67	42
1 TO 19 EMPLOYEES.	905	86	-	3	32	31	21	12	162	39	11	22	7	45	18	110	152	39	22	24	49	20
20 TO 99 EMPLOYEES	339	39	-	4	6	8	6	20	36	19	4	22	2	10	9	47	45	11	7	12	13	19
100 TO 249 EMPLOYEES	97	14	-	1	3	-	2	8	4	7	1	5	1	5	8	14	12	2	4	3	2	1
250 EMPLOYEES AND OVER . . .	64	6	-	-	1	-	-	1	4	3	1	5	-	2	9	4	8	7	6	2	3	2
ESSEX COUNTY	61	3	-	-	1	36	-	3	8	-	1	1	-	3	-	1	1	-	1	1	1	-
1 TO 19 EMPLOYEES.	52	2	-	-	-	34	-	1	7	-	1	-	-	2	-	1	1	-	1	1	1	-
20 TO 99 EMPLOYEES	6	1	-	-	-	2	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER . . .	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANKLIN COUNTY.	58	8	-	-	4	22	1	-	7	-	-	1	5	3	-	-	1	-	1	-	4	1
1 TO 19 EMPLOYEES.	44	5	-	-	2	19	1	-	5	-	-	-	2	3	-	-	1	-	1	-	4	1
20 TO 99 EMPLOYEES	10	3	-	-	1	3	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-
FULTON COUNTY.	164	3	-	14	13	11	3	3	6	6	3	5	76	2	-	2	6	1	2	1	5	2
1 TO 19 EMPLOYEES.	96	3	-	8	9	11	1	3	4	4	3	3	35	2	-	2	4	-	2	-	1	1
20 TO 99 EMPLOYEES	46	-	-	3	4	-	1	-	1	2	-	1	30	-	-	-	1	-	-	1	1	1
100 TO 249 EMPLOYEES	14	-	-	-	-	-	1	-	1	-	-	1	7	-	-	-	1	-	-	-	3	-
250 EMPLOYEES AND OVER . . .	8	-	-	3	-	-	-	-	-	-	-	-	4	-	-	-	-	1	-	-	-	-
GENESEE COUNTY	87	13	-	2	3	2	-	3	10	2	3	6	2	7	2	9	16	2	1	-	3	1
1 TO 19 EMPLOYEES.	48	5	-	1	1	2	-	-	6	1	3	3	1	2	-	6	12	1	-	-	3	1
20 TO 99 EMPLOYEES	27	6	-	1	2	-	-	3	4	1	-	3	-	3	-	2	2	-	-	-	-	-
100 TO 249 EMPLOYEES	7	2	-	-	-	-	-	-	-	-	-	-	1	1	1	-	1	1	-	-	-	-
250 EMPLOYEES AND OVER . . .	5	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	1	-	-	-
GREENE COUNTY.	46	4	-	2	8	3	-	-	6	1	1	1	-	3	2	3	3	2	3	1	2	1
1 TO 19 EMPLOYEES.	27	3	-	1	4	3	-	-	5	-	1	1	-	1	-	2	2	1	1	-	1	1
20 TO 99 EMPLOYEES	12	1	-	1	4	-	-	-	1	-	-	-	-	-	2	-	1	-	1	-	1	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	1	-	-	-	2	-	1	-	-	1	-	-	-
250 EMPLOYEES AND OVER . . .	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-
HAMILTON COUNTY.	14	-	-	-	1	12	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	13	-	-	-	1	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HERKIMER COUNTY.	97	9	-	5	4	13	3	4	8	1	4	1	6	3	1	9	15	2	2	-	5	2
1 TO 19 EMPLOYEES.	64	6	-	3	1	12	1	2	5	1	3	1	4	3	-	6	10	1	2	-	2	1
20 TO 99 EMPLOYEES	21	2	-	-	3	1	1	1	3	-	1	-	-	-	1	-	4	1	-	-	2	1
100 TO 249 EMPLOYEES	6	1	-	2	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	1	-
250 EMPLOYEES AND OVER . . .	6	-	-	-	-	-	1	-	-	-	-	-	2	-	-	2	1	-	-	-	-	-
JEFFERSON COUNTY	87	16	-	1	3	9	-	9	12	3	2	1	-	6	1	1	7	5	6	3	1	1
1 TO 19 EMPLOYEES.	55	11	-	-	1	7	-	2	10	2	2	-	-	6	-	1	3	2	4	2	1	1
20 TO 99 EMPLOYEES	21	3	-	1	2	2	-	4	1	1	-	1	-	-	1	-	3	1	1	-	-	-
100 TO 249 EMPLOYEES	7	2	-	-	-	-	-	2	1	-	-	-	-	-	-	-	1	-	-	1	-	-
250 EMPLOYEES AND OVER . . .	4	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2	1	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
KINGS COUNTY	4201	270	-	375	1056	100	224	137	272	142	6	148	89	95	56	387	225	160	56	66	324	13
1 TO 19 EMPLOYEES	2735	179	-	217	582	85	161	73	225	101	4	100	46	77	32	274	183	106	26	51	207	6
20 TO 99 EMPLOYEES	1253	72	-	146	433	15	57	49	37	29	2	40	30	14	19	98	33	38	21	11	103	6
100 TO 249 EMPLOYEES	166	10	-	11	35	-	5	14	7	9	-	6	11	2	5	9	5	13	7	4	12	1
250 EMPLOYEES AND OVER	47	9	-	1	6	-	1	1	3	3	-	2	2	2	-	6	4	3	2	-	2	-
LEWIS COUNTY	34	2	-	2	-	17	-	5	3	-	-	-	-	1	-	-	1	-	1	1	1	-
1 TO 19 EMPLOYEES	22	-	-	1	-	17	-	-	2	-	-	-	-	-	-	-	-	-	1	1	-	-
20 TO 99 EMPLOYEES	4	1	-	-	-	-	-	1	-	-	-	-	-	1	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	1	-	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LIVINGSTON COUNTY	56	9	-	-	2	2	-	-	13	5	-	4	1	4	2	3	5	3	1	-	2	-
1 TO 19 EMPLOYEES	31	7	-	-	-	1	-	-	7	2	-	2	1	2	1	2	2	2	1	-	1	-
20 TO 99 EMPLOYEES	14	-	-	-	-	1	-	-	4	2	-	2	-	1	1	-	2	-	-	-	1	-
100 TO 249 EMPLOYEES	8	1	-	-	2	-	-	-	2	1	-	-	-	1	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
MADISON COUNTY	64	13	-	-	1	6	2	2	6	2	1	3	-	8	2	1	9	3	3	-	1	1
1 TO 19 EMPLOYEES	44	9	-	-	1	5	1	-	5	2	1	-	-	7	-	1	6	3	2	-	1	-
20 TO 99 EMPLOYEES	16	3	-	-	-	1	1	2	1	-	-	2	-	1	1	-	3	-	1	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
MONROE COUNTY	968	69	-	3	23	20	24	31	172	23	8	28	8	33	19	124	200	53	6	65	34	25
1 TO 19 EMPLOYEES	626	41	-	1	17	16	19	8	134	15	8	17	8	20	11	71	140	31	6	31	23	9
20 TO 99 EMPLOYEES	243	18	-	1	2	2	5	20	32	3	-	10	-	12	7	42	45	14	-	15	7	8
100 TO 249 EMPLOYEES	48	6	-	-	2	2	-	3	2	4	-	-	-	-	1	7	8	2	-	5	3	3
250 EMPLOYEES AND OVER	51	4	-	1	2	-	-	-	4	1	-	1	-	1	-	4	7	6	-	14	1	5
MONTGOMERY COUNTY	89	9	-	11	12	3	2	5	9	3	1	4	3	2	1	3	6	1	-	2	10	2
1 TO 19 EMPLOYEES	42	4	-	6	4	3	2	1	6	2	1	-	-	2	-	1	6	-	-	1	3	-
20 TO 99 EMPLOYEES	30	3	-	1	6	-	-	4	2	1	-	4	3	-	-	1	-	-	-	1	3	1
100 TO 249 EMPLOYEES	12	-	-	4	2	-	-	-	1	-	-	-	-	-	1	1	-	-	-	-	3	-
250 EMPLOYEES AND OVER	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1
NASSAU COUNTY	2448	69	-	57	185	64	73	56	511	74	8	109	9	53	33	245	281	211	58	120	184	48
1 TO 19 EMPLOYEES	1812	58	-	40	118	52	59	30	424	45	7	76	8	46	21	172	235	131	45	69	152	24
20 TO 99 EMPLOYEES	494	9	-	10	60	10	12	16	76	22	-	29	-	6	8	59	38	52	5	36	25	21
100 TO 249 EMPLOYEES	110	2	-	6	7	2	2	7	10	4	1	4	1	-	4	11	7	17	5	13	5	2
250 EMPLOYEES AND OVER	32	-	-	1	-	-	-	3	1	3	-	-	-	1	-	3	1	11	3	2	2	1
NEW YORK COUNTY	13289	170	9	350	5096	96	228	132	3242	128	4	90	332	66	45	250	220	263	21	149	1806	592
1 TO 19 EMPLOYEES	9489	139	7	243	3176	85	199	90	2598	106	4	73	206	56	37	208	196	207	18	107	1474	260
20 TO 99 EMPLOYEES	3214	27	1	84	1709	11	26	38	530	20	-	15	108	8	8	37	23	47	3	36	290	193
100 TO 249 EMPLOYEES	432	3	1	19	181	-	3	3	71	1	-	2	14	2	-	5	1	6	-	6	35	79
250 EMPLOYEES AND OVER	154	1	-	4	30	-	-	1	43	1	-	-	4	-	-	-	-	3	-	-	7	60
NIAGARA COUNTY	306	28	-	2	2	14	3	13	25	25	2	16	-	24	13	36	71	10	3	2	6	11
1 TO 19 EMPLOYEES	178	20	-	-	1	11	1	3	19	8	-	11	-	12	3	23	50	4	2	2	5	3
20 TO 99 EMPLOYEES	72	4	-	1	-	2	2	4	4	9	2	3	-	5	5	11	15	2	-	-	1	2
100 TO 249 EMPLOYEES	35	3	-	1	1	1	-	5	2	3	-	2	-	3	3	1	5	-	-	-	-	5
250 EMPLOYEES AND OVER	21	1	-	-	-	-	-	1	-	5	-	-	-	4	2	1	1	4	1	-	-	1
ONEIDA COUNTY	314	49	-	7	11	19	8	9	43	6	3	7	2	19	14	22	49	7	4	9	20	6
1 TO 19 EMPLOYEES	206	36	-	3	7	15	5	5	32	6	3	5	-	15	3	13	33	2	1	5	13	4
20 TO 99 EMPLOYEES	65	9	-	1	3	3	1	3	9	-	-	2	1	3	5	3	10	3	1	2	5	1
100 TO 249 EMPLOYEES	24	4	-	3	-	1	1	-	1	-	-	-	-	1	2	4	2	1	1	1	1	1
250 EMPLOYEES AND OVER	19	-	-	-	1	-	1	1	1	-	-	-	1	-	4	2	4	1	1	1	1	-
ONONDAGA COUNTY	594	61	1	1	13	16	10	14	112	26	5	14	3	19	24	72	107	32	4	16	30	14
1 TO 19 EMPLOYEES	373	34	1	-	12	11	9	3	90	19	5	5	-	10	9	43	72	13	1	8	24	4
20 TO 99 EMPLOYEES	144	19	-	-	-	4	1	8	19	3	-	7	1	8	8	22	25	5	1	6	4	3
100 TO 249 EMPLOYEES	40	7	-	1	-	1	-	3	2	2	-	-	1	-	4	5	1	7	-	1	1	4
250 EMPLOYEES AND OVER	37	1	-	-	1	-	-	-	1	2	-	2	1	1	3	2	9	7	2	1	1	3
ONTARIO COUNTY	125	16	-	-	2	7	1	4	12	5	2	6	-	10	3	8	33	7	1	4	3	1
1 TO 19 EMPLOYEES	82	6	-	-	1	4	1	2	8	4	2	2	-	9	1	7	26	2	1	2	3	1
20 TO 99 EMPLOYEES	28	8	-	-	1	3	-	1	4	-	-	1	-	-	2	1	3	3	-	1	-	-
100 TO 249 EMPLOYEES	11	2	-	-	-	-	-	1	-	1	-	1	-	-	-	-	3	2	-	1	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	1	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
ORANGE COUNTY	358	24	-	15	44	18	7	13	43	11	4	14	12	20	10	24	34	15	6	11	27	6
1 TO 19 EMPLOYEES	212	14	-	5	17	14	3	4	36	4	4	5	1	14	4	14	28	9	4	7	22	3
20 TO 99 EMPLOYEES	105	8	-	8	22	2	3	8	5	2	-	4	8	5	4	5	6	4	1	2	5	3
100 TO 249 EMPLOYEES	28	2	-	1	5	2	1	1	1	3	-	4	1	-	1	3	-	2	-	1	-	-
250 EMPLOYEES AND OVER	13	-	-	1	-	-	-	-	1	2	-	1	2	1	1	2	-	-	1	1	-	-
ORLEANS COUNTY	48	7	-	2	1	6	1	1	5	1	1	1	-	3	1	6	6	2	-	1	2	1
1 TO 19 EMPLOYEES	32	3	-	1	-	6	-	1	3	-	1	1	-	3	-	5	5	2	-	-	-	1
20 TO 99 EMPLOYEES	12	3	-	1	1	-	1	-	2	1	-	-	-	-	-	1	1	-	-	1	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OSWEGO COUNTY	109	12	-	3	1	20	-	8	16	1	3	-	-	8	4	11	18	1	1	-	2	-
1 TO 19 EMPLOYEES	69	8	-	2	1	17	-	1	11	1	3	-	-	6	-	6	9	1	1	-	2	-
20 TO 99 EMPLOYEES	23	1	-	1	-	2	-	1	5	-	-	-	-	1	1	3	8	-	-	-	-	-
100 TO 249 EMPLOYEES	10	-	-	-	-	1	-	4	-	-	-	-	-	1	2	2	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	3	-	-	-	-	-	2	-	-	-	-	-	-	1	-	1	-	-	-	-	-
OTSEGO COUNTY	60	9	-	2	2	13	-	3	10	1	2	4	-	2	1	1	3	3	2	-	2	-
1 TO 19 EMPLOYEES	42	7	-	2	-	11	-	1	9	-	2	1	-	2	1	1	2	1	1	-	1	-
20 TO 99 EMPLOYEES	13	2	-	-	1	-	-	1	1	1	-	3	-	-	-	-	1	1	1	-	1	-
100 TO 249 EMPLOYEES	5	-	-	-	1	2	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-
PUTNAM COUNTY	64	2	-	1	2	5	3	1	13	-	-	5	1	3	1	3	3	4	-	5	10	2
1 TO 19 EMPLOYEES	55	2	-	1	2	5	3	1	12	-	-	4	1	2	-	3	2	3	-	3	10	1
20 TO 99 EMPLOYEES	8	-	-	-	-	-	-	-	1	-	-	1	-	1	1	-	1	1	-	1	-	1
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
QUEENS COUNTY	2710	159	-	207	437	69	109	83	278	99	6	88	25	70	39	303	252	126	33	87	211	29
1 TO 19 EMPLOYEES	1803	96	-	94	267	54	77	32	227	79	4	52	14	53	29	203	211	77	24	53	139	18
20 TO 99 EMPLOYEES	713	36	-	95	150	15	25	31	45	15	2	32	7	15	4	85	31	35	7	21	54	8
100 TO 249 EMPLOYEES	132	15	-	14	12	-	6	13	4	3	-	4	4	2	4	12	8	7	1	8	15	-
250 EMPLOYEES AND OVER	62	12	-	4	8	-	1	7	2	2	-	-	-	-	2	3	2	7	1	5	3	3
RENSSELAER COUNTY	127	7	-	6	9	9	2	5	28	4	2	7	-	7	3	10	15	2	1	3	3	4
1 TO 19 EMPLOYEES	88	6	-	4	5	7	1	2	24	1	2	4	-	6	2	5	11	2	1	1	3	1
20 TO 99 EMPLOYEES	22	-	-	1	1	1	1	1	2	1	-	2	-	1	-	5	3	-	-	1	-	2
100 TO 249 EMPLOYEES	10	1	-	-	2	1	-	1	2	-	-	1	-	-	1	-	-	-	-	1	-	-
250 EMPLOYEES AND OVER	7	-	-	1	1	-	-	1	-	2	-	-	-	-	-	-	1	-	-	-	-	1
RICHMOND COUNTY	125	13	-	-	34	4	4	1	21	5	1	3	-	4	1	9	8	2	8	2	4	1
1 TO 19 EMPLOYEES	85	8	-	-	18	4	4	1	19	2	-	2	-	4	-	7	6	2	3	2	3	-
20 TO 99 EMPLOYEES	30	3	-	-	14	-	-	-	1	1	1	1	-	-	-	2	2	-	3	-	1	1
100 TO 249 EMPLOYEES	5	2	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	1	-	-	-	1	1	-	-	-	-	1	-	-	-	1	-	-	-
ROCKLAND COUNTY	278	9	-	7	23	4	5	6	49	21	1	12	4	14	10	20	29	22	1	10	20	11
1 TO 19 EMPLOYEES	191	7	-	3	12	4	3	2	45	13	1	10	2	12	5	16	25	10	-	8	12	1
20 TO 99 EMPLOYEES	51	2	-	2	9	-	2	2	1	3	-	1	2	-	2	3	3	6	1	2	6	4
100 TO 249 EMPLOYEES	22	-	-	1	2	-	-	1	1	2	-	1	-	1	1	-	1	6	-	-	1	4
250 EMPLOYEES AND OVER	14	-	-	1	-	-	-	1	2	3	-	-	-	1	2	1	-	-	-	-	1	2
ST. LAWRENCE COUNTY	87	23	-	-	2	9	2	6	11	1	2	1	-	6	6	5	4	5	-	-	2	2
1 TO 19 EMPLOYEES	53	14	-	-	1	7	1	1	9	1	1	1	-	4	1	3	3	3	-	-	2	1
20 TO 99 EMPLOYEES	19	7	-	-	1	2	-	1	2	-	1	-	-	1	-	1	1	1	-	-	-	1
100 TO 249 EMPLOYEES	9	2	-	-	-	-	1	2	-	-	-	-	-	1	1	1	-	1	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	2	-	-	-	-	-	-	4	-	-	-	-	-	-	-
SARATOGA COUNTY	120	12	-	5	7	14	2	13	19	5	-	4	-	2	-	8	14	3	3	3	5	1
1 TO 19 EMPLOYEES	85	6	-	1	5	12	2	4	18	4	-	3	-	2	-	7	10	1	3	1	5	1
20 TO 99 EMPLOYEES	26	6	-	2	2	2	-	5	1	-	-	1	-	-	-	1	4	-	-	2	-	-
100 TO 249 EMPLOYEES	6	-	-	2	-	-	-	3	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	1	-	-	-	-
SCHENECTADY COUNTY	144	21	-	1	7	4	1	3	24	5	1	2	-	12	3	14	10	8	2	6	2	18
1 TO 19 EMPLOYEES	92	12	-	-	2	2	1	1	22	3	1	-	-	11	1	13	4	5	2	5	2	5
20 TO 99 EMPLOYEES	29	8	-	1	5	2	-	1	1	-	-	1	-	1	-	1	3	-	-	1	-	4
100 TO 249 EMPLOYEES	9	1	-	-	-	-	-	1	-	-	-	-	-	-	1	-	1	1	-	-	-	4
250 EMPLOYEES AND OVER	14	-	-	-	-	-	-	-	1	2	-	1	-	-	1	-	2	2	-	-	-	5
SCHOHARIE COUNTY	39	4	-	1	2	7	-	-	5	2	1	3	-	4	1	3	3	-	1	-	1	1
1 TO 19 EMPLOYEES	32	4	-	-	-	6	-	-	4	2	1	2	-	4	1	2	3	-	1	-	1	1
20 TO 99 EMPLOYEES	6	-	-	1	2	-	-	-	1	-	-	1	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
SCHUYLER COUNTY	19	3	-	-	1	1	-	-	5	2	1	-	-	1	-	2	3	-	-	-	-	-
1 TO 19 EMPLOYEES	13	3	-	-	1	-	-	-	5	-	-	-	-	1	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
SENECA COUNTY	35	7	-	1	1	2	-	-	6	1	1	3	-	-	2	2	6	1	1	-	-	1
1 TO 19 EMPLOYEES	23	5	-	-	1	1	-	-	6	-	1	3	-	-	1	1	3	-	1	-	-	-
20 TO 99 EMPLOYEES	6	2	-	-	-	1	-	-	-	1	-	-	-	-	1	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1
STEUBEN COUNTY	91	17	-	3	1	11	3	1	12	-	2	1	-	14	1	2	10	3	1	2	3	4
1 TO 19 EMPLOYEES	50	10	-	1	-	9	2	-	8	-	2	1	-	7	-	-	2	1	1	2	3	1
20 TO 99 EMPLOYEES	20	5	-	2	-	2	-	-	3	-	-	-	-	1	-	2	3	1	-	-	-	1
100 TO 249 EMPLOYEES	6	1	-	-	-	-	-	1	1	-	-	-	-	2	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	15	1	-	-	1	-	1	-	-	-	-	-	-	4	1	-	4	1	-	-	-	2
SUFFOLK COUNTY	2379	82	1	62	179	68	69	47	298	67	15	93	9	89	37	266	433	230	90	105	114	25
1 TO 19 EMPLOYEES	1747	61	1	35	92	57	53	26	257	48	13	59	2	73	26	203	368	132	76	70	89	6
20 TO 99 EMPLOYEES	500	16	-	24	80	9	13	17	32	14	2	26	6	15	10	49	56	58	12	26	22	13
100 TO 249 EMPLOYEES	97	4	-	2	7	2	2	3	8	2	-	7	1	1	-	12	5	26	1	7	3	4
250 EMPLOYEES AND OVER	35	1	-	1	-	-	1	1	1	3	-	1	-	-	1	2	4	14	1	2	-	2
SULLIVAN COUNTY	81	10	-	1	3	10	7	1	17	3	4	-	1	6	3	7	5	1	-	1	1	-
1 TO 19 EMPLOYEES	72	9	-	1	2	10	6	1	16	2	3	-	1	6	3	5	4	1	-	1	1	-
20 TO 99 EMPLOYEES	8	-	-	-	1	-	1	-	1	1	1	-	-	-	-	2	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TIOGA COUNTY	50	3	-	-	2	13	4	-	5	4	-	1	1	2	2	2	8	2	-	-	1	-
1 TO 19 EMPLOYEES	33	2	-	-	-	12	1	-	5	4	-	-	-	2	-	-	6	-	-	-	1	-
20 TO 99 EMPLOYEES	12	1	-	-	2	1	1	-	-	-	-	1	1	-	1	2	1	1	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
TOMPKINS COUNTY	84	8	-	-	1	6	-	-	29	1	1	-	1	8	-	3	11	5	3	4	3	-
1 TO 19 EMPLOYEES	67	7	-	-	1	6	-	-	25	-	1	-	1	7	-	1	7	4	1	3	3	-
20 TO 99 EMPLOYEES	10	1	-	-	-	-	-	-	3	1	-	-	-	1	-	1	2	-	-	1	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	1	1	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-
ULSTER COUNTY	237	19	1	3	28	24	10	5	31	4	3	1	4	8	3	21	34	12	3	8	13	2
1 TO 19 EMPLOYEES	178	18	-	2	12	22	8	3	24	2	2	1	2	6	2	16	28	7	3	7	11	2
20 TO 99 EMPLOYEES	43	1	1	-	13	2	2	2	6	1	1	-	2	1	-	4	3	2	-	-	2	-
100 TO 249 EMPLOYEES	9	-	-	1	2	-	-	-	1	-	-	-	-	1	-	-	2	1	-	1	-	-
250 EMPLOYEES AND OVER	7	-	-	-	1	-	-	-	-	1	-	-	-	-	1	1	1	2	-	-	-	-
WARREN COUNTY	95	5	-	1	5	30	2	6	14	3	1	1	-	6	-	5	9	1	1	2	3	-
1 TO 19 EMPLOYEES	68	4	-	-	1	24	2	3	10	1	1	1	-	4	-	4	8	-	1	1	3	-
20 TO 99 EMPLOYEES	15	1	-	-	1	5	-	2	3	1	-	-	-	1	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	-	3	1	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	1	-	-	-	1	-	1	-	-	-	-	-	1	-	-	-	1	-	-
WASHINGTON COUNTY	77	2	-	-	6	10	2	7	8	1	2	2	-	14	1	2	11	1	1	2	5	-
1 TO 19 EMPLOYEES	48	1	-	-	2	6	1	1	8	1	2	-	-	9	1	2	9	-	1	-	4	-
20 TO 99 EMPLOYEES	16	1	-	-	4	4	-	1	-	-	-	-	-	5	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	3	-	-	-	1	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	8	-	-	-	-	-	1	2	-	-	-	1	-	-	-	-	1	1	-	1	1	-
WAYNE COUNTY	119	24	-	-	1	15	1	5	15	6	2	1	-	7	-	7	17	3	3	2	7	3
1 TO 19 EMPLOYEES	78	14	-	-	-	14	-	-	12	5	2	1	-	5	-	4	12	1	2	1	4	1
20 TO 99 EMPLOYEES	25	4	-	-	1	1	-	3	3	1	-	-	-	1	-	2	4	1	-	1	2	1
100 TO 249 EMPLOYEES	8	5	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
250 EMPLOYEES AND OVER	8	1	-	-	-	-	-	2	-	-	-	-	-	1	-	-	1	1	1	-	-	1
WESTCHESTER COUNTY	1450	70	-	28	138	31	33	19	296	71	11	50	13	43	21	132	129	123	16	66	88	72
1 TO 19 EMPLOYEES	1017	50	-	18	83	26	28	12	247	51	9	28	7	31	7	93	109	73	12	39	71	23
20 TO 99 EMPLOYEES	323	14	-	9	46	4	3	7	39	15	2	20	3	11	8	35	15	26	3	20	14	29
100 TO 249 EMPLOYEES	77	4	-	1	8	1	2	-	7	4	-	1	2	1	4	3	3	18	-	6	3	9
250 EMPLOYEES AND OVER	33	2	-	-	1	-	-	-	3	1	-	1	1	-	2	1	2	6	1	1	-	11

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glsss products; 33--primary metal industries; 34--fabricsted metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellsneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
WYOMING COUNTY	48	7	-	2	3	6	2	1	4	1	1	1	-	3	2	2	6	4	-	1	2	-
1 TO 19 EMPLOYEES	26	5	-	1	2	2	-	1	4	-	1	-	-	3	-	1	4	-	-	1	1	-
20 TO 99 EMPLOYEES	12	1	-	1	-	4	2	-	-	-	-	1	-	-	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	6	1	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	1	-	-	1	-
250 EMPLOYEES AND OVER	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
YATES COUNTY	21	4	-	-	1	1	2	-	3	2	-	-	-	1	-	2	2	-	2	-	-	1
1 TO 19 EMPLOYEES	13	2	-	-	-	1	1	-	3	1	-	-	-	1	-	2	2	-	-	-	-	-
20 TO 99 EMPLOYEES	6	1	-	-	1	-	1	-	-	1	-	-	-	-	-	-	-	-	1	-	-	1
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include dsta for manufacturing establishments are shown.

North Carolina

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NORTH CAROLINA

LEGEND

- ⊙ Places of 100,000 or more inhabitants
- ● Places of 50,000 to 100,000 inhabitants
- □ Central cities of SMSA's with fewer than 50,000 inhabitants
- ○ Places of 25,000 to 50,000 inhabitants outside SMSA's

Standard Metropolitan Statistical Areas (SMSA's)

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 765.3 thousand persons were employed in North Carolina's manufacturing establishments. This figure represented an increase of 3 percent from the 1972 figure of 743.7 thousand workers.

The total value added by manufacture for the State amounted to $18,231 million in 1977, an increase of approximately 66 percent from the 1972 figure of $11,015 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were textile mill products, furniture and fixtures, apparel and other textile products, and electric and electronic equipment. They accounted for approximately 58 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 62 percent of the State's employment.

The most important counties in the State ranked by employment were Guilford, Forsyth, Mecklenburg, and Gaston. They accounted for approximately 23 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 24 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
North Carolina:						
1977	765.3	7,518.5	739.4	7,042.5	25.9	476.0
1972	743.7	4,929.1	722.5	4,677.7	21.2	251.4
1967	643.8	3,066.1	628.9	2,924.7	14.9	141.4
1963	530.6	2,092.1	519.1	2,002.9	11.6	89.1
STANDARD METROPOLITAN STATISTICAL AREAS						
Asheville:						
1977	19.8	193.3	18.8	177.8	1.0	15.5
1972	21.8	144.6	20.8	133.2	1.0	11.4
1967	19.7	95.9	18.8	88.5	.9	7.4
1963	16.5	70.1	(D)	(D)	(D)	(D)
Burlington:						
1977	20.1	186.8	19.6	179.0	.5	7.8
1972	24.3	161.3	(D)	(D)	(D)	(D)
Charlotte-Gastonia:						
1977	87.1	894.7	82.5	318.7	4.6	77.3
1972	88.4	620.4	84.5	576.0	3.9	44.4
Fayetteville:						
1977	9.9	103.3	(D)	(D)	(D)	(D)
1972	10.5	71.0	(D)	(D)	(D)	(D)
1967	6.5	28.3	(D)	(D)	(D)	(D)
Greensboro--Winston-Salem--High Point:						
1977	144.2	1,624.5	131.3	1,366.7	12.9	257.8
1972	138.0	1,022.4	128.7	905.9	9.3	116.5
Norfolk-Virginia Beach-Portsmouth, Va.-N.C.:						
1977	26.7	326.2	26.0	317.1	.7	9.1
1972	27.6	206.6	27.2	202.0	.4	4.6
Raleigh-Durham:						
1977	36.7	474.3	33.9	418.9	2.8	55.4
1972	32.2	268.2	29.8	239.9	2.4	28.3
1967	28.6	160.8	27.6	151.0	1.0	9.8
Wilmington:						
1977	13.0	166.6	12.8	163.8	.2	2.8
1972	12.1	98.1	12.1	97.6	(Z)	.5
1967	7.9	36.1	7.9	36.1	-	-

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanstion of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
NORTH CAROLINA															
1977 CENSUS.	9 954	4 005	765.3	7 518.5	611.3	1 186.5	5 086.3	18 230.6	23 009.8	40 912.2	1 345.3	3.91	100	100	19 596.9
1976 ASM....	(NA)	(NA)	738.9	6 655.2	591.8	1 141.9	4 504.7	15 822.1	20 186.9	35 818.9	1 294.6	3.94	97	96	18 753.0
1975 ASM....	(NA)	(NA)	710.8	5 847.2	563.7	1 053.7	3 866.6	13 507.0	17 752.5	31 432.8	1 236.7	3.88	93	94	18 302.2
1974 ASM....	(NA)	(NA)	780.8	6 021.7	625.6	1 203.2	4 033.2	13 900.9	17 748.5	31 191.1	1 199.1	3.93	102	102	19 844.8
1973 ASM....	(NA)	(NA)	781.0	5 458.6	634.9	1 249.3	3 812.6	12 592.6	14 958.3	27 440.6	1 053.6	3.93	102	102	19 897.9
1972 CENSUS.	8 632	3 794	743.7	4 929.1	604.0	1 211.0	3 427.3	11 014.5	13 296.7	24 123.9	986.8	3.91	97	98	19 028.7
1971 ASM....	(NA)	(NA)	699.0	4 267.3	566.3	1 118.8	2 949.5	9 824.2	11 104.2	20 880.5	810.4	3.81	91	94	18 363.1
1970 ASM....	(NA)	(NA)	699.9	3 998.6	571.3	1 124.4	2 789.5	9 053.4	10 559.3	19 515.0	714.0	3.64	91	99	19 217.2
1969 ASM....	(NA)	(NA)	691.0	3 751.8	568.9	1 133.2	2 670.4	8 186.1	10 047.5	18 155.4	756.2	3.45	90	103	20 035.5
1968 ASM....	(NA)	(NA)	669.1	3 424.1	555.6	1 112.0	2 474.2	7 575.0	9 407.7	16 880.6	637.6	3.43	87	100	19 527.6
1967 CENSUS.	8 266	3 379	643.3	3 066.1	537.8	1 070.2	2 210.1	6 606.5	8 592.8	15 129.6	664.6	3.33	84	99	19 323.2
1966 ASM....	(NA)	(NA)	611.9	2 806.1	511.2	1 047.7	2 022.2	6 133.0	8 200.4	14 146.6	732.5	3.22	80	98	19 024.5
1965 ASM....	(NA)	(NA)	576.2	2 503.3	480.6	981.9	1 818.6	5 528.4	7 401.3	12 819.3	511.6	3.20	75	92	18 010.2
1964 ASM....	(NA)	(NA)	546.9	2 278.6	454.6	921.3	1 640.1	4 950.4	6 798.0	11 707.2	352.5	3.17	71	89	17 268.5
1963 CENSUS.	7 784	2 946	530.6	2 092.1	444.4	890.2	1 527.5	4 566.5	(NA)	(NA)	314.4	3.13	69	87	16 958.4
CHARLOTTE-GASTONIA SMSA															
1977 CENSUS.	1 401	548	87.1	894.7	64.2	126.2	547.8	1 885.1	2 592.6	4 460.9	108.5	.44	100	100	19 596.9
1976 ASM....	(NA)	(NA)	82.9	770.4	61.9	119.8	474.2	1 579.0	2 151.7	3 729.4	97.9	.44	95	96	18 753.0
1975 ASM....	(NA)	(NA)	78.6	676.7	59.0	110.3	412.1	1 375.4	1 918.7	3 275.2	105.8	.43	90	94	18 302.2
1974 ASM....	(NA)	(NA)	87.2	701.7	66.5	130.2	437.8	1 483.2	1 971.6	3 408.1	98.8	.44	100	102	19 844.8
1973 ASM....	(NA)	(NA)	91.1	679.3	69.4	140.1	437.4	1 331.8	1 689.6	3 014.7	104.3	.46	105	102	19 897.9
1972 CENSUS.	1 198	533	88.4	620.4	67.0	140.8	393.9	1 239.3	1 497.3	2 682.6	102.9	.46	102	98	19 028.7
GREENSBORO--WINSTON-SALEM--HIGH POINT SMSA															
1977 CENSUS.	1 741	729	144.2	1 624.5	106.9	206.2	975.3	4 285.3	4 291.1	8 532.2	221.5	.74	100	100	19 596.9
1976 ASM....	(NA)	(NA)	137.9	1 413.3	104.3	200.7	874.1	3 691.2	3 923.7	7 576.6	228.4	.74	96	96	18 753.0
1975 ASM....	(NA)	(NA)	135.0	1 280.2	100.3	187.3	764.1	3 300.6	3 441.0	6 777.8	222.3	.74	94	94	18 302.2
1974 ASM....	(NA)	(NA)	147.9	1 339.1	108.1	207.6	773.7	3 223.2	3 347.5	6 524.0	177.7	.75	103	102	19 844.8
1973 ASM....	(NA)	(NA)	144.0	1 129.3	110.0	214.3	723.1	2 847.5	2 993.1	5 813.7	165.2	.72	100	102	19 897.9
1972 CENSUS.	1 559	107	138.0	1 022.4	106.0	209.4	658.2	2 593.4	2 596.9	5 157.6	148.5	.73	96	98	19 028.7
1971 ASM....	(NA)	(NA)	116.2	837.1	84.2	174.1	490.1	2 191.3	1 945.7	4 133.7	94.2	.63	81	94	18 363.1
1970 ASM....	(NA)	(NA)	119.1	794.3	88.1	181.2	480.9	2 086.3	1 885.5	3 952.4	90.5	.62	83	99	19 217.2
1969 ASM....	(NA)	(NA)	115.9	699.6	87.8	171.0	439.4	1 843.6	1 743.3	3 579.0	111.6	.58	80	103	20 035.5
1968 ASM....	(NA)	(NA)	114.7	641.7	89.2	173.2	415.4	1 720.8	1 659.3	3 376.3	99.7	.59	80	100	19 527.6
1967 CENSUS.	1 162	517	110.9	596.6	86.8	169.4	382.4	1 567.0	1 607.0	3 162.7	80.3	.57	77	99	19 323.2
1963 CENSUS.	1 092	459	96.6	431.1	76.0	147.7	279.7	1 169.9	(NA)	(NA)	44.3	.57	67	87	16 958.4

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includas extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employeea or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of ahipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
				NORTH CAROLINA					
1977 CENSUS	9 824	80	1 941	4.29	56	75	23 821	41	15.36
1976 ASM	9 007	80	1 930	3.94	56	75	21 413	42	13.86
1975 ASM	8 226	79	1 869	3.67	56	75	19 003	43	12.82
1974 ASM	7 712	80	1 923	3.35	57	76	17 803	43	11.55
1973 ASM	6 989	81	1 968	3.05	55	74	16 124	43	10.08
1972 CENSUS	6 628	81	2 005	2.83	55	76	14 810	45	9.10
1971 ASM	6 105	81	1 976	2.64	53	74	14 055	43	8.78
1970 ASM	5 713	82	1 968	2.48	54	75	12 935	44	8.05
1969 ASM	5 430	82	1 992	2.36	55	76	11 847	46	7.22
1968 ASM	5 117	83	2 001	2.22	56	76	11 321	45	6.81
1967 CENSUS	4 766	84	1 990	2.07	57	77	10 270	46	6.17
1966 ASM	4 586	84	2 049	1.93	58	78	10 023	46	5.85
1965 ASM	4 344	83	2 043	1.85	58	77	9 595	45	5.63
1964 ASM	4 166	83	2 027	1.78	58	78	9 052	46	5.37
1963 CENSUS	3 943	84	2 003	1.72	(NA)	(NA)	8 606	46	5.13
				CHARLOTTE-GASTONIA SMSA					
1977 CENSUS	10 273	74	1 967	4.34	58	78	21 645	47	14.94
1976 ASM	9 293	75	1 935	3.96	58	78	19 047	49	13.18
1975 ASM	8 609	75	1 869	3.74	59	79	17 499	49	12.47
1974 ASM	8 047	76	1 958	3.36	58	78	17 009	47	11.39
1973 ASM	7 457	76	2 019	3.12	56	79	14 619	51	9.51
1972 CENSUS	7 685	69	1 965	3.12	55	78	15 733	49	11.62
				GREENSBORO--WINSTON-SALEM--HIGH POINT SMSA					
1977 CENSUS	11 264	74	1 930	4.73	50	69	29 714	38	20.78
1976 ASM	10 249	76	1 924	4.36	52	70	26 767	38	18.39
1975 ASM	9 483	74	1 867	4.08	51	70	24 449	39	17.62
1974 ASM	9 054	73	1 920	3.73	51	72	21 793	42	15.53
1973 ASM	7 842	76	1 948	3.37	51	71	19 774	40	13.29
1972 CENSUS	7 409	77	1 975	3.14	50	70	18 793	39	12.38
1971 ASM	7 204	72	2 068	2.82	47	67	18 858	38	12.59
1970 ASM	6 669	74	2 057	2.65	48	68	17 517	38	11.51
1969 ASM	6 036	76	1 948	2.57	49	68	15 907	38	10.78
1968 ASM	5 595	78	1 942	2.40	49	68	15 003	37	9.94
1967 CENSUS	5 380	78	1 952	2.26	51	70	14 130	38	9.25
1963 CENSUS	4 463	79	1 943	1.89	(NA)	(NA)	12 111	37	7.92

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	9 954	8 632
With 1 to 19 employees	do	5 949	4 838
With 20 to 99 employees	do	2 240	2 102
With 100 employees or more	do	1 765	1 692
All employees, average for year[1]	1,000	765.3	743.7
Payroll for year, all employees[1]	mil. dollars	7 518.5	4 929.1
Production workers:			
Average for year	1,000	611.3	604.0
March	do	596.0	591.5
May	do	605.4	595.2
August	do	620.4	611.2
November	do	622.3	618.2
Hours	millions	1 186.5	1 211.0
January to March	do	287.5	295.6
April to June	do	300.8	304.8
July to September	do	296.3	299.2
October to December	do	302.0	311.4
Wages	mil. dollars	5 086.3	3 427.3
Cost of materials, etc.[2]	do	23 009.8	13 296.7
Materials, parts, containers, etc., consumed	do	20 630.7	11 872.6
Resales	do	1 005.0	808.9
Fuels consumed	do	471.9	140.6
Purchased electric energy	do	486.8	180.7
Contract work	do	415.5	294.0
Value of shipments, including resales[2]	do	40 912.2	24 123.9
Value of resales	do	1 174.3	926.7
Value added by manufacture	do	18 230.6	11 014.5
Manufacturers' inventories:			
Beginning of year	do	5 767.0	3 578.0
Finished products	do	1 501.4	949.1
Work in process	do	1 236.6	801.0
Materials, supplies, fuel, etc.	do	3 029.0	1 827.9
End of year	do	6 088.5	3 815.1
Finished products	do	1 570.6	978.7
Work in process	do	1 474.9	896.0
Materials, supplies, fuel, etc.	do	3 042.9	1 940.4
Capital expenditures for plant and equipment	do	1 506.9	1 048.4
New capital expenditures	do	1 345.3	986.8
New buildings and other structures	do	241.5	204.4
New machinery and equipment	do	1 103.9	782.4
Used capital expenditures	do	161.5	61.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	13,460.1	1
New capital expenditures	1,398.0	1
Used capital expenditures	180.7	4
Retirements	664.0	2
End of year	14,374.8	1
Buildings and other structures:		
Beginning of year	3,522.6	1
New capital expenditures	251.2	4
Used capital expenditures	33.3	12
Retirements	119.8	4
End of year	3,687.2	1
Machinery and equipment:		
Beginning of year	9,937.7	1
New capital expenditures	1,146.8	1
Automobiles, trucks, etc., for highway use	39.8	(NA)
Computers and peripheral data processing equip.	16.1	(NA)
All other	969.3	(NA)
New machinery and equipment, n.s.k.	121.6	(NA)
Used capital expenditures	147.5	4
Retirements	544.2	2
End of year	10,687.8	1
Rental payments:		
Total	174.5	4
Buildings and other structures	73.9	7
Machinery and equipment	100.6	4
Depreciation charges during 1977:		
Total	991.6	2
Buildings and other structures	179.7	1
Machinery and equipment	811.9	2
Supplemental labor costs:		
Total	1,127.9	1
Legal costs	517.5	1
Voluntary costs	610.4	1
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	52.2	5
Response coverage ratio (percent)	59	(X)
Machinery	247.4	14
Response coverage ratio (percent)	59	(X)
Cost of purchased communication services	(107.7)	33
Response coverage ratio (percent)	62	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in psrentheses hsve stsndsrd errors of 15 percent or more. (NA) Not svsilsble. n.s.k. Not specified by kind. (X) Not spplicsble.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
North Carolina	-	**9 954**	**4 005**	**765.3**	**7 518.5**	**811.3**	**1 186.5**	**5 086.3**	**18 230.8**	**23 009.8**	**40 912.2**	**1 345.3**	**743.7**	**11 014.5**
STANDARD METROPOLITAN STATISTICAL AREAS														
Asheville	-	248	117	19.8	193.3	14.4	27.6	116.9	425.3	389.2	799.2	27.0	21.8	311.6
Burlington	-	255	124	20.1	186.8	16.8	32.8	134.4	382.3	584.5	961.7	19.6	24.3	294.3
Charlotte-Gastonia	-	1 401	548	87.1	894.7	64.2	126.2	547.8	1 885.1	2 592.6	4 460.9	108.5	88.4	1 239.3
Fayetteville	-	141	53	9.9	103.3	7.8	15.5	73.9	250.9	541.9	795.1	33.1	10.5	195.1
Greensboro—Winston-Salem—High Point	-	1 741	729	144.2	1 624.5	106.9	206.2	975.3	4 285.3	4 291.1	8 532.2	221.5	138.0	2 593.4
Norfolk-Virginia Beach-Portsmouth, Va.-N.C.	-	537	190	26.7	326.2	19.4	38.9	211.3	1 083.3	1 850.2	2 950.9	50.1	27.6	551.7
Portion in Virginia	-	531	189	26.6	325.6	19.4	38.8	210.8	1 079.4	1 840.8	2 937.1	50.1	27.5	550.1
Portion in North Carolina	-	6	1	0.1	0.6	0.1	0.1	0.4	4.0	9.5	13.7	(Z)	0.1	1.6
Raleigh-Durham	-	550	179	36.7	474.3	22.4	43.8	217.1	1 109.4	1 495.3	2 531.1	75.7	32.2	567.6
Wilmington	-	183	64	13.0	166.6	9.3	18.4	103.6	747.8	748.3	1 508.4	29.2	12.1	481.7
COUNTIES														
Alamance	-	255	124	20.1	186.8	16.8	32.8	134.4	382.3	584.5	961.7	19.6	24.3	294.3
Alexander	E1	80	25	3.4	25.5	3.1	5.9	21.9	50.2	75.0	124.9	4.9	2.8	27.2
Alleghany	-	19	4	1.3	8.0	1.2	2.2	7.0	11.7	16.7	27.6	1.3	1.3	13.1
Anson	-	63	23	3.5	29.1	3.1	6.1	21.7	65.1	76.3	142.1	5.6	3.1	40.5
Ashe	-	51	10	2.8	20.0	2.7	4.9	18.1	43.4	31.9	74.4	2.0	2.4	24.5
Avery	E1	10	2	0.2	1.4	0.1	0.3	0.9	3.5	5.9	9.4	0.1	1.0	10.4
Beaufort	-	73	25	5.0	44.0	4.1	8.3	31.7	93.0	123.7	216.2	9.1	4.4	45.0
Bertie	-	41	13	2.4	19.4	2.2	4.1	14.7	30.0	64.1	92.2	4.3	1.4	14.3
Bladen	-	72	15	2.4	17.2	2.1	4.3	13.4	40.3	44.7	84.9	2.7	2.3	19.3
Brunswick	E1	48	8	0.7	8.3	0.6	1.2	5.4	22.5	32.2	53.5	2.7	0.5	7.9
Buncombe	-	238	114	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Burke	-	154	75	17.8	154.6	14.9	28.3	107.7	271.1	376.2	645.6	13.6	19.4	213.7
Cabarrus	-	111	53	21.1	176.1	18.6	34.6	144.1	335.8	472.6	754.3	16.9	25.6	206.0
Caldwell	-	162	83	17.2	144.5	15.1	30.6	113.3	286.8	296.9	583.0	13.6	16.2	191.7
Camden	E6	8	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Carteret	-	58	13	1.7	13.4	1.5	2.7	10.2	29.2	48.0	78.1	2.4	1.3	18.7
Caswell	-	8	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	12.7
Catawba	-	560	272	35.5	306.6	30.0	56.2	226.0	614.1	766.1	1 371.7	32.1	34.0	389.6
Chatham	-	87	31	5.4	47.6	4.7	8.9	36.8	120.9	209.1	329.3	10.9	4.9	60.0
Cherokee	-	33	12	2.0	15.0	1.7	3.5	11.9	33.6	29.5	62.1	1.3	2.9	25.3
Chowan	-	31	13	1.4	12.3	1.3	2.6	9.6	25.5	30.9	55.9	1.3	1.2	16.7
Clay	E1	11	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	2.5
Cleveland	-	167	74	15.9	155.8	13.5	27.0	121.1	344.8	477.8	814.7	38.3	16.4	246.7
Columbus	-	93	28	5.2	57.8	4.3	8.8	43.6	164.9	198.2	363.3	29.6	5.0	89.6
Craven	-	97	32	3.4	36.6	2.7	5.2	27.0	97.7	129.9	224.1	12.4	3.3	46.0
Cumberland	-	141	53	9.9	103.3	7.8	15.5	73.9	250.9	541.9	795.1	33.1	10.5	195.1
Currituck	-	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.6
Dare	E3	18	1	0.1	1.6	0.1	0.2	1.1	3.1	3.6	6.7	0.6	0.1	1.4
Davidson	-	283	107	23.4	212.6	19.9	38.7	158.6	427.8	422.8	844.5	25.2	21.0	261.3
Davie	-	51	20	2.8	25.5	2.2	3.7	15.7	56.4	166.8	228.1	9.0	2.6	27.0
Duplin	-	61	19	3.6	29.4	3.1	6.2	23.6	62.0	150.2	215.9	6.3	3.7	46.0
Durham	-	146	56	16.0	248.8	8.1	15.6	91.0	546.4	984.1	1 463.5	44.0	14.6	301.5
Edgecombe	-	59	35	6.6	62.7	5.4	11.0	44.2	185.1	223.0	406.4	13.1	6.5	96.4
Forsyth	-	292	121	41.7	572.7	28.7	55.2	335.2	2 140.0	1 707.0	3 828.1	90.4	38.7	1 155.4
Franklin	-	58	15	2.4	17.2	2.2	3.9	14.4	35.7	48.5	81.8	4.1	2.2	22.4
Gaston	-	423	182	38.3	349.2	31.9	63.4	259.4	722.3	1 065.6	1 791.0	45.3	42.3	514.6
Gates	E1	18	2	0.1	1.1	0.1	0.2	0.8	4.3	4.2	8.4	0.2	0.2	2.3
Graham	E1	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.7
Granville	-	47	23	3.2	28.3	2.5	5.1	18.8	65.1	120.6	185.4	6.4	3.3	43.7
Greene	-	10	5	0.4	3.3	0.4	0.7	2.6	7.9	16.1	23.1	0.4	0.4	3.1
Guilford	-	836	373	55.8	634.2	38.5	75.1	331.8	1 267.4	1 383.8	2 644.1	65.2	58.0	912.8
Halifax	-	96	35	5.9	58.0	5.1	10.5	45.5	114.8	160.3	274.0	5.3	6.4	83.0
Harnett	-	45	17	5.4	47.1	4.7	9.4	36.6	102.3	140.9	237.8	6.3	4.5	50.2
Haywood	-	33	13	5.3	70.7	4.3	8.7	54.6	211.6	269.6	474.2	(D)	5.7	111.1
Henderson	-	93	30	4.8	54.2	3.7	7.3	34.6	208.8	120.0	326.2	6.8	4.5	80.6
Hertford	-	47	13	2.2	18.4	1.8	3.3	13.4	44.8	97.1	139.6	4.3	2.0	36.0
Hoke	E2	11	7	3.5	27.9	3.0	5.9	19.4	48.2	152.1	201.3	3.0	3.0	35.0
Hyde	E1	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Iredell	-	184	94	15.7	131.5	13.4	25.8	97.1	284.0	343.1	627.0	56.0	15.9	183.6
Jackson	E2	17	6	1.5	10.1	1.3	2.4	7.9	19.3	17.2	36.4	0.8	1.6	13.3
Johnston	-	107	32	7.2	62.0	6.0	11.0	45.1	216.8	307.1	513.5	6.0	7.0	84.7
Jones	E2	14	2	0.3	1.4	0.2	0.4	1.2	2.2	1.3	3.5	0.2	0.3	1.6
Lee	-	100	37	7.0	65.7	5.7	10.9	41.7	173.3	179.4	355.4	13.0	6.4	88.9
Lenoir	-	80	39	9.0	99.2	6.9	13.4	63.5	242.1	338.5	578.6	15.1	7.3	139.1
Lincoln	-	102	42	6.8	56.6	6.0	11.5	45.2	108.9	146.0	251.6	13.9	6.7	77.1
McDowell	-	66	31	10.8	88.6	9.6	17.4	71.5	178.5	180.8	353.4	21.8	7.3	96.5
Macon	-	33	7	0.9	7.2	0.8	1.4	5.2	28.6	13.8	41.1	2.2	0.9	7.8
Madison	-	10	3	0.3	2.0	0.3	0.6	1.8	3.9	7.9	11.5	(D)	(D)	(D)
Martin	-	37	12	2.1	17.0	1.8	3.6	13.5	27.1	76.5	104.9	1.8	1.9	22.1
Mecklenburg	-	852	309	40.0	471.4	25.1	48.9	237.4	1 018.4	1 233.8	2 227.4	52.7	38.3	624.9
Mitchell	-	26	7	1.5	11.8	1.5	2.8	10.8	23.6	17.4	40.3	(D)	1.5	11.5
Montgomery	-	100	37	6.0	46.3	5.2	9.3	34.8	79.9	89.7	168.1	5.6	5.5	52.2
Moore	-	77	27	4.6	39.1	4.1	7.9	32.3	95.9	145.4	241.3	4.3	3.9	50.4
Nash	-	114	63	12.4	104.2	10.7	20.8	81.4	248.7	379.2	623.9	24.7	9.4	107.6
New Hanover	-	135	56	12.2	158.3	8.7	17.2	98.2	725.3	716.1	1 454.8	26.5	11.7	473.8
Northampton	-	40	18	1.8	12.5	1.6	2.9	10.0	27.8	37.5	66.1	3.7	1.5	19.8
Onslow	-	40	12	1.9	14.4	1.7	3.1	11.1	31.8	64.5	95.2	6.6	1.7	14.3
Orange	-	58	13	1.9	17.7	1.6	3.2	13.5	29.3	45.0	73.5	1.5	2.1	16.8
Pamlico	E1	18	4	0.2	2.4	0.2	0.5	1.7	3.7	9.5	13.2	(D)	0.2	1.4

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
COUNTIES—Con.														
Pasquotank	–	36	12	1.5	13.3	1.2	2.2	9.1	28.0	22.7	51.7	1.5	1.6	17.6
Pender	–	22	6	0.5	3.9	0.4	0.7	2.9	4.6	13.5	17.9	0.3	0.3	2.9
Perquimans	E4	14	–	0.1	0.6	0.1	0.1	0.4	1.1	1.7	2.8	0.1	0.3	1.7
Person	–	34	13	4.0	37.1	3.4	7.1	29.0	80.4	105.4	184.3	2.6	4.3	53.4
Pitt	–	92	36	7.0	69.3	5.3	11.0	43.2	252.9	286.6	535.5	11.1	6.0	132.8
Polk	–	26	7	0.8	6.4	0.6	1.2	4.6	14.9	49.4	64.3	1.8	1.0	8.1
Randolph	–	274	111	20.9	184.8	17.7	33.2	135.4	392.7	480.2	864.4	29.6	18.5	239.7
Richmond	–	64	34	6.3	54.6	5.6	11.5	45.1	147.2	153.6	296.2	6.4	5.1	44.5
Robeson	–	126	58	11.0	85.4	9.5	18.3	68.9	207.8	246.7	453.7	9.4	10.5	117.4
Rockingham	–	103	54	16.7	162.4	13.7	27.0	116.7	438.3	805.3	1 231.7	115.4	17.2	306.2
Rowan	–	162	67	14.1	130.3	11.7	21.6	96.6	400.1	508.1	902.6	23.1	13.5	233.1
Rutherford	–	85	40	10.3	92.9	9.0	18.1	73.9	188.7	201.9	388.6	16.6	9.7	146.4
Sampson	–	73	29	4.5	36.8	3.9	7.5	28.1	100.2	181.9	281.1	(D)	3.9	49.0
Scotland	–	42	24	6.4	66.4	5.6	12.3	56.0	148.5	305.2	442.4	8.7	6.2	70.0
Stanly	–	99	43	9.4	82.4	8.3	16.2	65.7	336.7	269.2	599.3	11.7	10.6	137.3
Stokes	–	25	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Surry	–	118	50	13.6	102.6	12.5	23.4	84.5	217.8	273.8	482.6	9.7	13.7	158.0
Swain	–	14	7	1.1	7.3	1.0	1.8	5.2	14.5	18.0	33.0	0.5	1.0	9.4
Transylvania	–	18	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Tyrrell	E2	14	5	0.2	1.7	0.2	0.4	1.3	4.0	3.3	7.2	0.5	0.2	1.5
Union	–	126	57	8.8	74.1	7.2	13.9	51.0	144.4	293.2	442.5	10.5	7.8	99.8
Vance	–	52	33	6.8	57.0	5.9	11.5	45.5	107.9	148.0	258.1	8.4	6.5	75.3
Wake	–	346	110	18.8	207.8	12.7	24.9	112.7	533.7	466.2	994.1	30.2	15.5	249.3
Warren	–	39	7	0.9	6.6	0.8	1.7	5.5	9.1	20.8	29.6	0.6	1.0	7.0
Washington	–	24	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Watauga	–	45	8	2.1	16.2	1.8	3.4	12.5	32.6	19.8	52.6	1.1	2.0	22.3
Wayne	–	96	41	6.8	58.3	5.3	10.9	38.7	126.6	163.4	288.6	(D)	5.5	73.8
Wilkes	–	119	33	8.2	65.1	7.1	13.8	49.5	134.5	279.9	417.8	5.9	7.4	90.0
Wilson	–	76	39	7.7	77.4	6.1	11.7	54.9	211.4	350.5	555.2	13.3	6.4	92.6
Yadkin	–	31	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Yancey	–	26	8	1.3	9.6	1.2	2.0	8.1	19.9	33.0	52.5	0.4	1.0	9.6
CITIES														
Ahoskie	–	20	6	1.0	8.7	0.8	1.5	6.8	21.0	52.4	70.1	1.8	1.2	24.7
Albemarle	E1	35	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.0	84.9
Archdale	–	25	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Asheboro	–	109	47	9.7	91.9	7.9	14.7	62.3	213.8	240.9	451.0	14.1	7.9	123.2
Asheville	–	132	53	5.0	44.1	3.4	6.4	25.5	95.7	119.5	210.8	4.8	6.1	81.0
Belmont	–	34	21	3.6	29.6	3.3	6.6	25.1	51.2	91.9	143.8	2.8	3.2	26.8
Bessemer City	–	26	8	1.8	18.3	1.5	3.2	14.3	56.3	42.3	98.7	3.3	1.9	26.3
Black Mountain	–	11	5	0.9	8.0	0.7	1.4	5.5	14.0	9.9	23.1	0.5	(D)	(D)
Boone	–	32	8	2.0	15.9	1.7	3.3	12.2	31.8	18.6	50.7	1.1	2.0	21.5
Burlington	–	141	66	9.5	92.4	7.4	14.4	59.7	194.0	348.6	541.5	10.0	14.2	180.2
Canton	–	10	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cary	–	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Charlotte	–	636	227	27.8	327.5	16.0	31.1	146.7	605.8	767.2	1 364.2	34.8	26.0	441.7
Cherryville	E1	20	11	1.5	10.0	1.3	2.4	8.4	16.1	24.1	41.5	0.7	2.2	25.2
Clayton	–	17	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clinton	–	23	12	1.8	17.7	1.4	2.7	12.6	32.4	112.7	144.7	(D)	1.8	21.6
Concord	–	68	38	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.7	68.1
Conover	–	62	26	4.1	34.6	3.4	6.4	25.9	69.0	95.1	163.5	2.3	3.2	36.6
Dallas	–	25	7	0.6	5.6	0.6	1.1	4.7	9.9	8.7	17.8	0.3	(D)	(D)
Davidson	–	7	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dunn	E2	24	9	1.8	14.4	1.3	2.6	8.7	26.4	49.0	75.0	(D)	(D)	(D)
Durham	–	115	42	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Edenton	–	29	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Eden	–	33	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Elizabeth City	–	36	12	1.5	13.3	1.2	2.2	9.1	28.0	22.7	51.7	1.5	(D)	(D)
Elkin	–	12	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	56.7
Erwin	–	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fairmont	–	18	5	1.0	6.1	1.0	2.0	5.6	10.1	6.3	16.1	0.2	(D)	(D)
Farmville	–	12	5	1.3	11.2	1.0	2.2	8.0	26.2	49.4	74.1	(D)	1.4	15.3
Fayetteville	–	78	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.3	122.4
Forest City	–	26	11	1.8	16.9	1.6	3.2	13.2	41.7	47.1	87.4	4.7	1.8	23.7
Fuquay-Varina	E1	26	6	0.9	8.0	0.8	1.8	5.7	16.4	15.4	31.7	0.7	0.5	7.5
Gastonia	–	236	85	14.6	142.7	11.4	22.3	99.1	288.0	461.3	753.9	19.6	17.1	231.4
Goldsboro	–	53	18	2.4	21.5	1.6	3.2	12.1	46.0	59.5	105.5	(D)	2.7	42.1
Graham	–	40	17	2.5	19.9	2.3	4.3	16.1	33.0	49.3	82.2	2.2	2.7	25.8
Greensboro	–	341	147	23.7	293.5	16.5	33.0	160.5	657.4	762.4	1 412.2	40.2	27.3	474.5
Greenville	–	53	20	4.0	43.3	2.9	6.1	24.3	211.6	205.5	413.2	(D)	2.5	95.1
Hamlet	E1	18	8	0.6	4.4	0.5	1.0	3.2	10.0	10.8	20.7	0.5	(NA)	(NA)
Henderson	–	44	27	5.0	37.7	4.4	8.3	30.5	69.7	100.7	171.9	(D)	4.6	52.8
Hendersonville	E1	39	9	0.7	7.1	0.5	0.9	3.6	16.7	14.4	30.9	0.5	1.0	9.6
Hickory	–	251	123	15.0	133.7	12.6	23.8	97.1	268.2	335.2	599.5	13.2	17.0	196.8
High Point	–	359	177	22.4	200.4	18.0	33.9	134.8	390.0	448.1	837.9	(D)	23.6	295.6
Hudson	–	19	7	1.1	9.5	1.0	2.2	7.9	18.5	21.6	39.8	1.7	(NA)	(NA)
Kannapolis (U)	–	22	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kernersville	E1	37	12	2.3	26.3	1.9	3.6	19.9	50.6	71.7	119.8	2.2	2.2	27.9
Kings Mountain	–	49	26	3.8	29.9	3.5	6.8	23.5	50.0	107.4	157.5	7.1	4.1	44.4
Kinston	E1	59	30	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Laurinburg	–	28	11	3.0	31.3	2.6	5.6	26.3	64.3	62.0	126.7	2.2	1.4	15.2
Lenoir	–	102	46	12.2	103.9	10.7	21.9	81.8	204.6	195.6	399.7	9.8	12.4	148.9
Lexington	–	93	35	9.1	83.3	7.9	15.4	63.2	167.2	175.1	341.5	7.7	8.1	104.4

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
CITIES—Con.														
Lincolnton	-	63	28	2.7	22.1	2.4	4.5	16.5	46.8	66.0	110.8	5.2	4.2	43.9
Longview	-	32	23	2.6	20.7	2.1	4.1	15.2	41.0	41.2	81.5	2.0	1.0	12.0
Louisburg	-	37	8	1.1	7.6	1.1	1.8	6.7	15.6	20.5	33.6	(D)	0.9	7.0
Lowell	-	10	4	0.7	6.3	0.6	1.2	4.6	9.5	23.5	31.8	(D)	0.7	4.0
Lumberton	-	51	27	6.2	49.4	5.2	9.7	39.2	139.3	135.5	273.8	6.5	6.2	63.1
Marion	-	46	19	7.3	58.8	6.6	11.5	48.5	136.8	106.2	238.2	19.1	5.3	77.3
Mayodan	-	6	4	2.5	20.3	2.3	4.4	17.0	39.3	101.2	140.8	(D)	(D)	(D)
Mocksville	-	41	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	25.2
Monroe	-	75	40	6.6	55.2	5.3	10.1	36.6	88.6	217.0	310.8	7.8	5.5	73.7
Mooresville	-	30	12	4.4	36.2	3.9	7.5	29.4	66.1	87.7	153.4	(D)	4.7	36.5
Morehead City	-	23	5	0.7	5.3	0.6	1.0	3.9	8.2	12.6	21.2	0.4	(NA)	(NA)
Morganton	-	35	24	8.4	71.8	7.3	14.0	52.9	135.3	133.7	268.3	6.5	9.8	121.4
Mount Airy	-	81	32	8.5	60.7	7.7	14.9	48.4	121.3	124.6	238.6	5.5	8.7	84.7
Mount Holly	-	20	15	2.1	18.8	1.7	3.3	12.5	42.6	68.6	110.1	4.5	1.9	24.2
Mount Olive	-	13	6	1.3	9.3	1.1	2.6	6.9	20.5	15.4	35.9	0.3	0.8	6.5
Murfreesboro	-	8	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Bern	-	60	23	1.9	22.5	1.5	2.7	16.1	58.1	93.2	148.8	11.4	2.1	29.5
Newton	-	70	34	5.2	39.9	4.6	8.5	32.2	76.7	105.2	179.5	3.4	5.1	57.2
North Wilkesboro	-	48	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	38.7
Oxford	-	25	10	1.3	10.5	1.0	2.0	7.2	28.3	44.1	70.6	3.6	2.5	35.0
Plymouth	-	19	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Raeford	E3	10	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	35.0
Raleigh	-	191	55	9.6	110.6	6.1	11.9	57.3	279.1	272.8	544.4	16.8	8.1	137.1
Red Springs	-	8	5	0.8	7.4	0.7	1.5	6.1	14.1	24.1	38.4	0.3	(D)	(D)
Reidsville	-	31	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Roanoke Rapids	-	34	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Rockingham	-	29	14	2.2	18.8	1.9	4.0	15.1	54.3	73.0	125.8	2.8	1.4	6.7
Rocky Mount	-	79	44	10.1	90.2	8.5	16.8	69.2	234.4	395.3	625.6	(D)	7.7	101.6
Roxboro	-	31	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Rutherfordton	-	28	11	1.9	16.2	1.6	3.4	11.6	29.4	31.5	61.2	1.7	1.5	20.4
Salisbury	-	101	43	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.7	86.1
Sanford	-	87	29	5.1	43.1	4.4	8.3	32.3	98.7	98.9	201.4	9.9	5.6	81.2
Scotland Neck	-	12	4	0.6	3.6	0.5	1.0	3.2	7.2	8.2	15.3	0.3	(NA)	(NA)
Selma	-	7	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	6.9
Shelby	-	49	24	4.9	45.6	4.0	8.0	34.8	78.0	103.3	181.4	(D)	6.9	98.7
Siler City	-	29	15	2.7	22.2	2.4	4.5	17.6	42.5	72.3	114.4	2.1	2.7	34.7
Smithfield	-	29	9	1.4	11.9	1.2	2.1	7.7	30.4	76.0	105.5	1.4	(D)	(D)
Southern Pines	-	14	6	0.8	7.7	0.7	1.4	6.6	22.2	7.9	30.0	0.2	(NA)	(NA)
Spindale	-	10	7	3.1	27.7	2.7	5.2	21.9	51.5	45.5	97.3	5.3	2.8	71.4
Statesville	-	81	53	7.9	67.1	6.7	13.0	47.6	161.2	184.8	347.9	36.6	8.0	100.2
Tarboro	-	25	16	4.2	40.5	3.5	7.1	28.6	130.8	103.8	235.4	7.1	4.2	57.0
Thomasville	-	114	44	8.5	74.3	6.9	13.3	52.2	131.5	126.5	255.7	6.1	8.1	89.4
Valdese	-	22	14	3.8	32.7	3.1	5.6	22.4	57.6	69.5	126.3	2.7	4.3	44.3
Wadesboro	-	32	10	2.3	19.7	2.0	4.1	14.2	39.1	50.5	89.2	4.0	2.1	26.7
Wake Forest	-	16	7	0.8	10.3	0.6	1.2	5.4	18.7	29.7	53.4	3.3	0.6	7.0
Wallace	-	18	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Washington	-	36	14	3.1	30.6	2.5	5.2	22.1	59.8	83.3	143.0	7.3	2.6	18.0
Waynesville	-	15	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Whiteville	-	29	12	1.8	17.1	1.5	3.1	12.6	54.8	72.7	127.5	(D)	1.7	27.0
Wilmington	-	114	42	6.5	63.8	4.8	9.4	43.5	179.7	239.2	419.6	8.9	7.7	192.0
Wilson	-	64	34	6.4	66.3	5.1	9.7	47.5	191.5	300.9	485.9	10.9	5.4	82.2
Winston-Salem	-	205	91	33.3	479.3	22.0	42.6	267.2	1 865.2	1 390.4	3 240.6	80.5	32.3	1 062.0
Woodfin	-	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	**9 954**	**4 005**	**765.3**	**7 518.5**	**611.3**	**1 186.5**	**5 086.3**	**18 230.6**	**23 009.8**	**40 912.2**	**1 345.3**	**743.7**	**11 014.5**
20	**Food and kindred products**	-	**666**	**275**	**39.1**	**389.5**	**25.2**	**49.7**	**210.8**	**977.7**	**2 618.7**	**3 601.5**	**176.6**	**37.4**	**639.8**
201	Meat products	-	158	48	11.9	97.3	10.2	19.3	74.2	166.2	859.9	1 029.6	20.2	11.4	123.3
2011	Meat packing plants	E2	82	15	2.5	28.2	1.9	3.6	18.9	49.2	279.3	329.1	9.2	2.4	37.1
2013	Sausages and other prepared meats	E1	45	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	18.9
2016	Poultry dressing plants	-	30	24	8.2	58.0	7.3	13.9	47.8	91.4	465.5	560.6	8.9	7.8	67.3
202	Dairy products	-	39	28	3.1	31.7	1.5	3.1	13.6	82.4	259.4	341.9	4.7	3.2	70.5
2024	Ice cream and frozen desserts	-	13	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2026	Fluid milk	-	24	21	2.8	28.5	1.2	2.6	11.7	69.6	227.7	297.5	4.2	2.9	62.8
203	Preserved fruits and vegetables	-	19	11	1.8	16.7	1.5	3.1	12.3	71.8	80.6	153.5	2.0	1.6	36.0
2032	Canned specialties	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2033	Canned fruits and vegetables	-	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2035	Pickles, sauces, and salad dressings	-	7	5	0.9	9.0	0.7	1.6	6.4	22.7	29.6	53.5	0.5	0.7	7.7
204	Grain mill products	-	130	35	2.4	26.0	1.6	3.2	14.4	77.1	491.0	568.6	(D)	2.2	59.0
2041	Flour and other grain mill products	E1	30	8	0.6	6.2	0.4	0.9	4.1	16.6	74.1	90.5	1.4	BB	(D)
2045	Blended and prepared flour	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2047	Dog, cat, and other pet food	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2048	Prepared feeds, n.e.c.	-	92	23	1.4	15.2	0.9	1.7	8.1	45.0	377.8	423.5	7.3	1.5	38.0
205	Bakery products	-	63	39	10.6	113.2	5.1	10.4	45.3	250.4	170.9	421.0	12.9	9.8	147.1
2051	Bread, cake, and related products	-	54	34	6.0	64.4	3.1	6.4	29.2	144.2	102.1	246.3	7.4	6.6	105.4
2052	Cookies and crackers	-	9	5	4.7	48.9	2.0	4.0	16.1	106.2	68.8	174.7	5.5	3.2	41.7
206	Sugar and confectionery products	-	14	2	0.2	2.0	0.2	0.4	1.2	5.2	10.1	15.3	0.2	BB	(D)
2065	Confectionery products	E1	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
207	Fats and oils	-	20	14	1.1	14.1	0.9	2.2	10.3	47.1	346.8	393.0	6.4	1.0	25.0
2076	Vegetable oil mills, n.e.c.	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2077	Animal and marine fats and oils	-	12	8	0.7	8.9	0.6	1.4	6.8	26.2	40.9	66.4	3.6	0.6	13.8
208	Beverages	-	100	64	5.3	63.1	2.2	4.3	23.3	227.6	297.7	525.1	113.7	5.8	147.8
2082	Malt beverages	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2086	Bottled and canned soft drinks	E1	92	61	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
209	Miscellaneous foods and kindred products	-	123	34	2.6	25.4	2.0	3.8	16.4	50.0	102.3	153.5	(D)	EE	(D)
2092	Fresh or frozen packaged fish	E1	45	14	0.7	5.4	0.6	1.2	4.0	13.0	31.8	44.8	(D)	0.3	2.1
2097	Manufactured ice	-	30	1	0.2	1.4	0.1	0.2	0.8	2.7	2.1	4.8	0.5	0.2	1.8
2099	Food preparations, n.e.c.	-	37	18	1.6	16.6	1.2	2.2	11.0	32.6	55.4	89.2	4.7	EE	(D)
21	**Tobacco products**	-	**36**	**30**	**23.4**	**308.4**	**19.9**	**38.4**	**242.3**	**2 113.8**	**2 216.2**	**4 327.3**	**85.5**	**23.1**	**1 263.8**
2111	Cigarettes	-	5	5	17.9	262.2	15.6	30.1	213.5	2 002.3	1 250.1	3 253.2	(D)	17.6	1 198.5
2131	Chewing and smoking tobacco	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2141	Tobacco stemming and redrying	-	28	23	5.3	43.8	4.1	8.0	27.1	97.1	953.0	1 046.7	(D)	FF	(D)
22	**Textile mill products**	-	**1 372**	**952**	**245.3**	**2 093.5**	**219.5**	**435.3**	**1 715.7**	**4 267.4**	**6 877.1**	**11 053.7**	**310.0**	**275.6**	**3 013.4**
2211	Weaving mills, cotton	-	50	40	35.4	327.3	32.4	65.1	284.3	636.3	878.8	1 446.3	48.7	32.5	294.0
2221	Weaving mills, manmade fiber and silk	-	79	74	40.6	381.4	36.3	73.8	312.1	774.5	1 060.6	1 828.6	64.5	44.1	528.4
2241	Narrow fabric mills	-	42	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	49.4
225	Knitting mills	-	700	447	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2251	Women's hosiery, except socks	-	115	81	17.9	129.1	15.9	29.4	105.1	283.3	297.9	579.7	11.6	29.5	263.4
2252	Hosiery, n.e.c.	-	281	168	20.3	138.7	18.5	33.6	116.0	252.7	339.4	589.9	7.9	19.4	178.3
2253	Knit outerwear mills	-	45	30	8.2	58.0	7.4	13.6	47.0	106.0	115.9	217.3	(D)	8.3	92.9
2254	Knit underwear mills	-	14	10	4.7	29.4	4.4	7.6	25.0	49.6	53.6	100.8	(D)	4.9	34.0
2257	Circular knit fabric mills	-	148	110	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	23.2	320.1
2258	Warp knit fabric mills	-	62	44	9.1	86.8	7.6	16.3	64.8	178.5	362.4	540.6	25.5	7.9	96.3
2259	Knitting mills, n.e.c.	E4	35	4	0.4	2.4	0.4	0.7	2.0	4.8	6.6	11.4	0.1	0.3	1.9
226	Textile finishing, except wool	-	78	64	12.6	123.3	10.3	21.1	91.5	303.6	500.3	809.8	(D)	15.2	217.0
2261	Finishing plants, cotton	-	15	10	2.1	20.1	1.8	3.5	15.5	35.8	65.4	101.8	2.1	5.0	58.4
2262	Finishing plants, synthetics	-	34	30	7.7	79.1	6.2	12.9	57.3	215.9	282.0	503.1	(D)	5.5	99.6
2269	Finishing plants, n.e.c.	-	29	24	2.8	24.1	2.4	4.8	18.6	51.8	152.9	204.9	3.1	4.7	58.9
227	Floor covering mills	-	40	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	53.2
2271	Woven carpets and rugs	-	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2272	Tufted carpets and rugs	-	19	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2279	Carpets and rugs, n.e.c.	-	12	2	0.3	2.0	0.3	0.4	1.4	3.7	3.6	7.3	0.1	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
22	**Textile mill products—Con.**														
228	Yarn and thread mills	–	268	235	65.2	535.5	59.4	120.2	452.7	1 016.4	1 867.6	2 879.2	76.0	73.3	752.9
2281	Yarn mills, except wool	–	185	166	46.9	382.3	43.5	88.4	332.1	704.8	1 141.9	1 852.5	55.5	48.7	447.7
2282	Throwing and winding mills	–	58	50	13.1	114.0	11.5	23.6	90.4	222.1	552.2	768.3	18.5	18.6	227.8
2283	Wool yarn mills	–	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	13.4
2284	Thread mills	–	16	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	64.0
229	Miscellaneous textile goods	–	112	53	5.8	54.6	5.0	10.0	41.7	126.6	285.1	410.0	9.5	7.7	112.4
2291	Felt goods, except woven felts and hats	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2293	Paddings and upholstery filling	E1	10	7	0.7	6.6	0.5	1.1	4.8	14.8	16.5	31.2	0.9	0.4	5.4
2294	Processed textile waste	–	11	8	0.4	3.7	0.4	0.7	2.7	8.5	18.6	27.6	0.7	0.5	5.2
2295	Coated fabrics, not rubberized	–	7	5	0.6	6.6	0.5	1.1	3.8	13.9	40.8	54.0	1.5	CC	(D)
2296	Tire cord and fabric	–	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2297	Nonwoven fabrics	–	10	9	1.0	9.8	0.9	1.9	7.6	26.5	36.5	63.0	4.4	EE	(D)
2298	Cordage and twine	–	13	7	0.7	5.4	0.7	1.2	4.3	11.0	9.8	20.9	(D)	1.0	9.9
2299	Textile goods, n.e.c.	E4	52	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	7.6
23	**Apparel and other textile products**	–	**702**	**468**	**77.1**	**484.3**	**68.0**	**121.4**	**383.4**	**851.9**	**1 057.9**	**1 891.1**	**19.8**	**79.1**	**836.1**
2311	Men's and boys' suits and coats	–	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
232	Men's and boys' furnishings	–	141	116	21.6	125.7	19.1	33.9	100.3	202.9	209.8	411.0	(D)	23.1	160.3
2321	Men's and boys' shirts and nightwear	–	85	71	13.6	77.1	12.2	22.1	61.6	122.9	131.9	251.5	2.0	11.4	80.8
2322	Men's and boys' underwear	–	8	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	25.6
2323	Men's and boys' neckwear	–	9	5	0.7	4.9	0.7	1.1	3.8	11.5	8.6	19.7	(Z)	1.0	6.2
2327	Men's and boys' separate trousers	–	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	18.4
2328	Men's and boys' work clothing	–	21	19	2.9	18.1	2.5	4.4	14.2	31.2	27.0	57.9	0.5	3.9	22.9
2329	Men's and boys' clothing, n.e.c.	–	13	11	1.7	9.9	1.4	2.4	7.3	12.8	15.7	30.3	0.4	1.1	6.4
233	Women's and misses' outerwear	–	213	130	17.4	108.7	15.2	26.5	82.9	194.1	204.1	397.2	(D)	15.1	120.5
2331	Women's and misses' blouses and waists	–	40	31	5.0	32.2	4.5	8.0	23.7	54.7	58.8	113.1	1.4	3.7	27.6
2335	Women's and misses' dresses	E3	98	46	4.6	27.9	4.1	7.2	22.0	46.0	21.3	66.7	1.0	4.3	28.5
2337	Women's and misses' suits and coats	E2	19	14	1.9	11.5	1.7	2.9	8.6	17.5	10.5	28.2	(D)	0.4	1.7
2339	Women's and misses' outerwear, n.e.c.	–	56	39	5.8	37.2	4.8	8.4	28.5	75.9	113.5	189.3	2.2	6.7	62.6
234	Women's and children's undergarments	–	65	58	11.6	71.3	10.3	18.5	55.6	138.0	111.7	248.4	(D)	12.1	99.0
2341	Women's and children's underwear	–	59	53	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2342	Brassieres and allied garments	–	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
236	Children's outerwear	–	63	57	7.2	43.4	6.4	11.1	36.0	74.3	49.3	123.2	(D)	FF	(D)
2361	Children's dresses and blouses	–	35	34	3.3	20.1	2.9	5.0	15.9	37.5	23.8	61.2	(D)	FF	(D)
2363	Children's coats and suits	E4	6	4	0.5	3.6	0.5	0.8	3.0	3.8	1.6	5.5	(Z)	BB	(D)
2369	Children's outerwear, n.e.c.	–	22	19	3.4	19.7	3.0	5.3	17.1	33.0	23.8	56.6	0.6	2.3	14.4
238	Miscellaneous apparel and accessories	E1	32	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	33.7
2381	Fabric dress and work gloves	E2	14	13	2.4	13.8	2.2	3.9	12.4	27.2	32.0	59.2	0.2	2.1	15.9
2384	Robes and dressing gowns	E2	6	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	6.6
2385	Waterproof outer garments	–	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2387	Apparel belts	–	5	2	0.2	2.2	0.2	0.3	1.0	3.8	3.3	6.9	(D)	BB	(D)
239	Miscellaneous fabricated textile products	–	179	79	14.4	105.0	12.7	23.3	84.4	187.4	424.1	596.7	(D)	16.1	168.2
2391	Curtains and draperies	–	33	17	4.6	32.1	4.1	7.5	26.5	46.1	95.6	140.0	0.8	5.9	60.9
2392	House furnishings, n.e.c.	–	41	24	5.4	40.1	4.8	9.4	33.5	84.1	233.8	305.5	3.2	6.1	69.7
2393	Textile bags	–	8	4	0.8	5.6	0.6	1.3	4.2	10.5	13.6	24.8	0.7	0.9	8.3
2394	Canvas and related products	E1	18	4	0.3	2.9	0.3	0.5	1.7	5.5	6.6	12.3	(D)	0.6	8.0
2395	Pleating and stitching	E1	23	8	0.8	5.3	0.7	0.9	4.0	8.6	10.8	19.5	0.2	0.4	2.1
2396	Automotive and apparel trimmings	E3	21	8	0.6	5.4	0.6	1.1	4.4	10.0	12.5	22.5	0.3	0.4	4.2
2399	Fabricated textile products, n.e.c.	–	35	14	1.9	13.5	1.6	2.7	10.2	22.7	51.1	72.1	0.6	1.6	15.0
24	**Lumber and wood products**	**E1**	**2 072**	**369**	**32.6**	**277.8**	**28.3**	**52.9**	**211.5**	**583.8**	**877.0**	**1 460.7**	**90.7**	**31.8**	**366.8**
2411	Logging camps and logging contractors	E4	840	28	3.4	30.8	3.1	4.6	25.4	67.8	98.3	165.2	9.6	3.1	36.0
242	Sawmills and planing mills	E1	807	169	12.5	101.3	11.0	21.0	78.2	213.7	327.6	541.5	54.5	11.9	131.2
2421	Sawmills and planing mills, general	E1	630	104	8.5	71.8	7.4	14.2	55.6	167.7	274.3	443.0	49.8	7.7	98.5
2426	Hardwood dimension and flooring	E1	175	64	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.1	31.6

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
24	**Lumber and wood products**—Con.														
243	Millwork, plywood, and structural members	-	196	79	7.3	66.0	6.3	12.5	49.9	137.5	196.1	333.7	11.6	7.6	93.3
2431	Millwork	E2	56	13	0.9	8.3	0.8	1.5	5.8	17.8	34.3	51.6	0.8	1.1	15.1
2434	Wood kitchen cabinets	-	49	7	1.1	11.2	1.0	1.7	7.8	21.7	16.8	39.2	0.4	1.2	15.9
2435	Hardwood veneer and plywood	-	62	47	3.7	29.5	3.3	6.6	23.1	51.7	79.6	131.4	3.5	3.8	42.4
2436	Softwood veneer and plywood	-	10	7	1.1	12.5	1.0	2.1	10.4	38.7	49.1	87.6	6.4	1.0	16.1
2439	Structural wood members, n.e.c.	-	19	5	0.4	4.4	0.3	0.6	2.8	7.7	16.4	24.0	0.5	0.4	3.7
244	Wood containers	-	54	20	1.7	11.4	1.5	2.9	9.5	19.9	25.2	44.9	1.5	1.4	10.6
2448	Wood pallets and skids	-	27	9	0.6	4.1	0.5	0.9	3.3	7.7	10.8	18.5	0.8	0.5	4.6
2449	Wood containers, n.e.c.	-	17	7	0.9	6.3	0.9	1.8	5.4	9.9	12.1	21.8	0.4	0.9	5.6
245	Wood buildings and mobile homes	-	47	30	3.0	29.3	2.5	4.7	19.8	53.0	118.5	171.3	6.0	3.7	43.7
2451	Mobile homes	-	31	26	2.6	25.0	2.2	4.1	17.4	44.5	104.3	149.0	5.3	3.1	38.0
2452	Prefabricated wood buildings	E3	16	4	0.4	4.2	0.3	0.6	2.5	8.5	14.1	22.3	0.7	0.6	5.7
249	Miscellaneous wood products	E1	128	43	4.6	39.0	3.8	7.2	28.6	91.9	111.3	204.0	7.5	4.3	52.1
2491	Wood preserving	-	16	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	5.5
2492	Particleboard	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	7.9
2499	Wood products, n.e.c.	E1	109	36	4.1	34.1	3.4	6.4	25.0	82.2	91.4	173.8	6.1	3.3	38.6
25	**Furniture and fixtures**	-	**664**	**391**	**78.9**	**653.1**	**69.7**	**133.3**	**517.5**	**1 299.5**	**1 183.7**	**2 467.3**	**60.2**	**70.3**	**823.7**
251	Household furniture	-	567	342	71.6	586.4	63.7	121.6	471.2	1 159.9	1 071.0	2 217.5	(D)	63.4	740.1
2511	Wood household furniture	-	219	126	41.2	333.6	37.3	74.3	274.9	681.3	533.4	1 208.6	28.2	35.0	409.1
2512	Upholstered household furniture	-	286	180	26.6	221.3	23.2	41.5	173.8	418.9	460.7	876.2	20.7	24.0	284.3
2514	Metal household furniture	-	20	13	2.2	17.1	2.0	3.7	13.6	36.6	41.4	74.6	1.3	1.7	17.3
2515	Mattresses and bedsprings	E2	32	18	1.0	8.6	0.7	1.3	4.8	16.5	22.2	38.7	(D)	1.1	13.6
2519	Household furniture, n.e.c.	-	9	4	0.5	4.5	0.3	0.6	3.4	7.7	11.1	18.6	(D)	CC	(D)
252	Office furniture	-	24	18	4.1	37.5	3.5	6.8	27.0	83.8	66.2	149.8	(D)	4.0	51.1
2521	Wood office furniture	-	18	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2522	Metal office furniture	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2531	Public building and related furniture	E1	19	9	1.2	11.6	1.0	1.9	7.4	22.9	15.3	37.0	(D)	CC	(D)
254	Partitions and fixtures	-	38	19	1.7	16.2	1.4	2.6	10.9	30.5	28.7	58.1	(D)	1.8	20.4
2541	Wood partitions and fixtures	-	33	15	1.3	12.8	1.1	2.2	9.0	23.4	25.7	48.6	(D)	1.6	17.4
2542	Metal partitions and fixtures	-	5	4	0.4	3.4	0.3	0.5	1.9	7.1	3.0	9.5	(D)	0.2	3.0
259	Miscellaneous furniture and fixtures	E3	16	3	0.2	1.5	0.2	0.3	1.0	2.4	2.5	5.0	(D)	AA	(D)
2599	Furniture and fixtures, n.e.c.	E2	12	3	0.2	1.3	0.1	0.3	0.9	2.1	2.2	4.2	(D)	AA	(D)
26	**Paper and allied products**	-	**171**	**116**	**19.4**	**267.0**	**15.5**	**31.9**	**193.1**	**715.7**	**926.6**	**1 621.9**	**139.1**	**16.5**	**319.5**
2611	Pulp mills	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2621	Paper mills, except building paper	-	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2631	Paperboard mills	-	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
264	Miscellaneous converted paper products	-	62	30	4.1	44.6	3.3	6.8	30.8	201.2	233.3	426.4	7.2	2.3	50.9
2641	Paper coating and glazing	-	10	7	0.9	8.4	0.7	1.5	6.5	23.3	25.8	48.3	1.6	BB	(D)
2643	Bags, except textile bags	E1	10	7	0.9	10.7	0.7	1.4	6.5	20.5	31.9	50.6	(D)	0.7	8.7
2645	Die-cut paper and board	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2647	Sanitary paper products	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2649	Converted paper products, n.e.c.	-	29	10	0.8	7.5	0.6	1.2	4.4	13.9	20.2	33.7	1.7	0.4	6.3
265	Paperboard containers and boxes	-	96	73	6.3	71.9	4.9	9.8	47.5	155.1	240.6	393.8	12.8	6.1	86.8
2651	Folding paperboard boxes	-	20	14	1.0	12.9	0.8	1.7	8.6	28.9	36.2	64.3	1.8	0.9	14.3
2652	Setup paperboard boxes	-	16	13	0.9	8.2	0.8	1.5	5.8	13.7	13.5	27.0	0.3	1.1	13.8
2653	Corrugated and solid fiber boxes	-	34	28	2.9	35.7	2.1	4.1	21.8	75.8	139.7	214.8	8.5	3.2	44.3
2654	Sanitary food containers	-	5	5	0.6	6.8	0.5	1.1	5.3	18.0	27.6	45.3	0.6	0.4	7.9
2655	Fiber cans, drums, and similar products	-	21	13	0.8	8.5	0.7	1.3	6.0	18.8	23.6	42.5	1.5	0.4	6.5
27	**Printing and publishing**	-	**925**	**174**	**15.7**	**166.7**	**9.5**	**17.6**	**90.2**	**362.2**	**212.8**	**572.5**	**17.2**	**13.8**	**205.4**
2711	Newspapers	-	189	65	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.7	106.3
2721	Periodicals	E1	38	5	0.3	4.3	0.1	0.2	1.1	13.0	6.9	19.8	0.2	AA	(D)
273	Books	-	29	5	0.9	8.3	0.6	1.1	4.2	19.5	11.8	30.7	1.2	0.8	10.7
2731	Book publishing	-	18	1	0.2	2.6	(Z)	(Z)	0.1	8.6	4.0	12.3	(D)	(NA)	(NA)
2732	Book printing	-	11	4	0.7	5.8	0.5	1.1	4.1	10.9	7.8	18.4	(D)	0.7	8.4

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
27	**Printing and publishing**—Con.													
275	Commercial printing	E1	545	68	5.1	55.4	4.0	7.2	37.9	113.0	104.6	216.1	7.8	4.3	63.5
2751	Commercial printing, letterpress	E3	313	20	1.6	16.7	1.3	2.2	11.1	35.4	30.7	65.6	1.9	2.0	28.4
2752	Commercial printing, lithographic	E1	204	39	2.7	29.5	2.0	3.7	19.6	57.2	41.4	98.0	4.2	1.6	25.1
2753	Engraving and plate printing	–	11	2	0.2	1.6	0.1	0.3	1.2	2.6	0.9	3.6	(Z)	(NA)	(NA)
2754	Commercial printing, gravure	–	17	7	0.6	7.6	0.5	1.1	6.0	17.8	31.6	49.0	1.7	CC	(D)
2761	Manifold business forms	E1	27	15	0.9	11.0	0.7	1.4	8.3	22.2	23.2	45.2	1.2	0.8	10.3
278	Blankbooks and bookbinding	E1	19	9	0.8	6.7	0.7	1.2	4.8	14.2	4.2	18.4	(D)	0.7	5.2
2782	Blankbooks and looseleaf binders	E1	9	5	0.4	4.0	0.3	0.7	2.8	10.3	2.9	13.2	(D)	0.3	2.4
2789	Bookbinding and related work	–	10	4	0.4	2.7	0.3	0.6	2.0	3.9	1.3	5.2	(D)	0.4	2.9
279	Printing trade services	E1	48	4	0.3	4.4	0.3	0.5	3.1	8.8	2.2	11.0	0.3	0.3	5.3
28	**Chemicals and allied products**	–	**281**	**126**	**33.0**	**431.5**	**23.9**	**46.2**	**266.4**	**1 663.7**	**1 879.5**	**3 522.7**	**110.4**	**27.0**	**887.0**
281	Industrial inorganic chemicals	–	26	7	0.8	11.5	0.6	1.3	8.6	63.0	65.8	129.9	6.2	0.8	19.1
2819	Industrial inorganic chemicals, n.e.c.	–	11	5	0.6	9.2	0.5	1.0	6.9	51.6	55.6	108.3	3.7	0.7	15.6
282	Plastics materials and synthetics	–	27	24	16.2	222.1	12.6	24.5	153.8	722.2	888.5	1 609.3	39.2	16.4	452.0
2821	Plastics materials and resins	–	11	10	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2824	Organic fibers, noncellulosic	–	13	12	15.7	215.1	12.2	23.8	149.7	692.4	812.7	1 504.1	37.5	16.0	439.4
283	Drugs	–	23	12	6.7	69.1	5.4	9.9	49.3	442.0	180.4	606.7	30.4	EE	(D)
2831	Biological products	–	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2833	Medicinals and botanicals	–	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2834	Pharmaceutical preparations	–	12	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
284	Soaps, cleaners, and toilet goods	–	50	19	1.9	30.1	0.9	1.8	7.9	111.6	101.9	211.5	2.6	2.1	65.9
2842	Polishes and sanitation goods	–	17	3	0.2	1.9	0.1	0.2	0.8	15.6	22.5	38.0	0.2	(NA)	(NA)
2843	Surface active agents	–	17	9	0.5	7.7	0.2	0.5	2.4	29.2	45.8	74.6	1.5	0.6	17.3
2844	Toilet preparations	–	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2851	Paints and allied products	–	22	12	1.3	21.6	0.5	1.1	6.0	46.5	91.1	137.0	2.3	1.2	32.1
286	Industrial organic chemicals	–	23	13	2.0	29.3	1.2	2.5	14.3	115.9	191.6	298.5	16.3	1.4	74.4
2865	Cyclic crudes and intermediates	–	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2869	Industrial organic chemicals, n.e.c.	–	14	8	0.7	10.7	0.4	0.9	5.1	60.5	62.4	115.6	(D)	CC	(D)
287	Agricultural chemicals	–	51	26	2.5	29.0	1.7	3.3	17.8	99.0	276.5	384.3	10.1	2.5	64.7
2873	Nitrogenous fertilizers	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2874	Phosphatic fertilizers	–	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2875	Fertilizers, mixing only	–	32	17	1.0	9.2	0.7	1.4	5.0	31.8	106.5	138.5	3.7	0.9	17.6
2879	Agricultural chemicals, n.e.c.	–	13	4	0.3	4.0	0.1	0.2	1.3	11.0	35.4	53.7	0.7	BB	(D)
289	Miscellaneous chemical products	–	59	13	1.5	18.8	1.0	2.0	8.6	63.4	83.7	145.5	3.5	EE	(D)
2891	Adhesives and sealants	–	11	4	0.4	6.0	0.3	0.6	3.0	18.0	36.1	53.8	0.6	AA	(D)
2893	Printing ink	–	17	3	0.2	3.0	0.1	0.3	1.5	12.1	16.9	28.4	1.4	(NA)	(NA)
2899	Chemical preparations, n.e.c.	–	31	6	0.9	9.8	0.6	1.1	4.1	33.3	30.6	63.3	1.4	0.8	14.6
29	**Petroleum and coal products**	–	**28**	**3**	**0.3**	**3.8**	**0.2**	**0.5**	**2.9**	**15.1**	**69.8**	**85.1**	**1.3**	**0.2**	**12.6**
295	Paving and roofing materials	–	25	2	0.3	3.0	0.2	0.5	2.3	7.7	32.3	40.2	0.9	AA	(D)
2952	Asphalt felts and coatings	–	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
30	**Rubber and miscellaneous plastics products**	–	**244**	**128**	**21.9**	**234.2**	**17.5**	**34.3**	**169.9**	**618.1**	**710.0**	**1 318.2**	**55.2**	**16.0**	**280.2**
3011	Tires and inner tubes	–	9	6	5.5	78.2	4.2	8.2	56.7	220.3	233.8	450.1	28.6	2.7	87.8
3021	Rubber and plastics footwear	–	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3041	Rubber and plastics hose and belting	–	6	5	2.4	28.1	1.9	3.8	20.2	89.3	43.3	132.2	3.4	EE	(D)
3069	Fabricated rubber products, n.e.c.	–	26	7	0.9	8.0	0.8	1.5	6.3	20.5	22.1	42.4	1.5	1.0	17.3
3079	Miscellaneous plastics products	–	201	109	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.9	132.4

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
31	**Leather and leather products**	-	**42**	**19**	**4.3**	**31.5**	**3.7**	**6.7**	**23.1**	**63.7**	**76.4**	**139.9**	**1.3**	**3.6**	**35.4**
3111	Leather tanning and finishing	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.8
314	Footwear, except rubber	-	14	11	3.7	25.8	3.2	5.7	19.3	51.1	55.2	106.2	(D)	3.0	27.3
3142	House slippers	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3143	Men's footwear, except athletic	-	8	8	2.6	19.1	2.3	4.3	14.5	33.9	42.5	76.7	0.7	1.9	13.3
3149	Footwear, except rubber, n.e.c.	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
317	Handbags and other personal leather goods	E1	12	3	0.3	2.2	0.3	0.5	1.6	4.2	5.1	9.3	(D)	AA	(D)
3171	Women's handbags and purses	E1	11	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3199	Leather goods, n.e.c.	E1	10	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.5
32	**Stone, clay, and glass products**	-	**448**	**146**	**15.8**	**170.6**	**12.6**	**25.8**	**121.7**	**436.1**	**380.0**	**816.3**	**41.4**	**15.0**	**254.0**
3211	Flat glass	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
322	Glass and glassware, pressed or blown	-	8	7	4.2	52.6	3.6	7.3	43.2	157.5	89.3	247.9	15.7	3.4	75.1
3221	Glass containers	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3229	Pressed and blown glass, n.e.c.	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3231	Products of purchased glass	-	19	8	1.4	13.5	1.2	2.4	8.5	34.7	43.3	77.6	3.1	1.3	24.4
3241	Cement, hydraulic	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
325	Structural clay products	-	32	28	2.3	22.2	1.9	3.9	15.1	49.8	38.7	90.5	7.5	2.8	36.7
3251	Brick and structural clay tile	-	27	25	1.9	17.9	1.5	3.1	11.5	41.8	30.0	73.4	6.9	EE	(D)
3253	Ceramic wall and floor tile	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3259	Structural clay products, n.e.c.	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
326	Pottery and related products	-	18	2	0.2	2.0	0.2	0.3	1.1	3.6	2.4	6.1	(Z)	(NA)	(NA)
327	Concrete, gypsum, and plaster products	-	292	79	4.5	43.8	3.1	6.2	26.9	92.5	125.1	216.9	9.2	4.9	79.6
3271	Concrete block and brick	-	44	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3272	Concrete products, n.e.c.	E1	114	24	1.6	16.3	1.2	2.3	10.0	29.3	22.9	52.0	1.9	1.7	24.4
3273	Ready-mixed concrete	-	133	41	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	42.1
3281	Cut stone and stone products	E1	32	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	5.4
329	Miscellaneous nonmetallic mineral products	-	43	13	2.1	21.8	1.7	3.5	15.2	58.0	48.1	104.3	4.9	1.7	23.4
3292	Asbestos products	-	6	4	0.9	8.2	0.8	1.5	6.9	28.2	18.3	46.0	1.2	CC	(D)
3293	Gaskets, packing, and sealing devices	-	6	4	0.8	8.0	0.6	1.2	4.7	19.4	11.8	29.9	(D)	BB	(D)
3295	Minerals, ground or treated	-	16	3	0.2	2.4	0.2	0.3	1.8	4.1	8.4	12.5	1.3	(NA)	(NA)
33	**Primary metal industries**	-	**87**	**45**	**5.9**	**72.8**	**4.6**	**9.4**	**50.7**	**277.8**	**285.7**	**558.5**	**22.1**	**6.4**	**127.0**
331	Blast furnace and basic steel products	-	14	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	11.0
3312	Blast furnaces and steel mills	-	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
332	Iron and steel foundries	-	17	10	1.2	11.4	1.0	2.0	8.9	22.2	19.9	43.1	2.2	1.4	21.1
3321	Gray iron foundries	-	17	10	1.2	11.4	1.0	2.0	8.9	22.2	19.9	43.1	2.2	1.4	21.1
333	Primary nonferrous metals	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3334	Primary aluminum	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
335	Nonferrous rolling and drawing	-	21	18	3.0	36.9	2.2	4.6	23.0	114.6	150.5	265.7	15.9	3.5	73.3
3353	Aluminum sheet, plate, and foil	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3354	Aluminum extruded products	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3356	Nonferrous rolling and drawing, n.e.c.	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3357	Nonferrous wire drawing and insulating	-	13	11	1.5	15.7	1.1	2.2	10.6	58.8	58.6	117.3	3.1	EE	(D)
336	Nonferrous foundries	-	16	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3361	Aluminum foundries	-	13	7	0.5	5.5	0.4	0.8	4.3	10.3	10.3	20.7	2.7	AA	(D)
34	**Fabricated metal products**	-	**469**	**192**	**26.3**	**301.6**	**19.5**	**38.5**	**192.6**	**927.8**	**873.8**	**1 794.9**	**35.3**	**17.0**	**292.7**
341	Metal cans and shipping containers	-	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3411	Metal cans	-	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
342	Cutlery, hand tools, and hardware	-	40	21	3.3	32.6	2.7	5.4	23.2	70.2	50.5	116.8	4.0	2.2	35.0
3421	Cutlery	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3423	Hand and edge tools, n.e.c.	E1	7	3	0.2	1.9	0.2	0.3	1.3	3.9	3.2	7.0	(D)	(NA)	(NA)
3425	Hand saws and saw blades	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3429	Hardware, n.e.c.	-	25	13	2.3	22.7	1.9	3.7	15.5	50.4	37.4	84.4	2.8	1.7	29.0

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
34	**Fabricated metal products**—Con.														
343	Plumbing and heating, except electric	-	26	9	1.5	13.6	1.2	2.2	9.1	34.0	48.4	81.3	1.7	0.9	15.1
3432	Plumbing fittings and brass goods	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3433	Heating equipment, except electric	-	21	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
344	Fabricated structural metal products	-	208	89	11.2	137.3	8.1	16.3	81.9	562.4	470.3	1 036.2	(D)	7.6	124.9
3441	Fabricated structural metal	-	43	24	2.3	27.4	1.6	3.2	15.7	46.3	84.9	132.0	4.1	2.9	51.6
3442	Metal doors, sash, and trim	-	22	11	1.3	12.5	1.0	2.1	7.9	28.6	41.8	69.9	0.9	0.7	10.5
3443	Fabricated plate work (boiler shops)	-	25	12	3.8	57.1	2.7	5.5	34.2	400.3	207.3	612.1	7.0	1.6	29.7
3444	Sheet metal work	E1	72	24	2.3	25.2	1.6	3.3	14.5	53.0	59.0	111.3	1.5	1.8	23.5
3446	Architectural metal work	E1	21	4	0.4	2.7	0.3	0.6	1.8	5.1	3.6	8.5	0.4	AA	(D)
3448	Prefabricated metal buildings	-	16	9	0.9	9.9	0.7	1.4	6.7	22.9	45.9	69.2	1.1	(NA)	(NA)
3449	Miscellaneous metal work	E2	9	5	0.2	2.6	0.1	0.2	1.1	6.2	27.7	33.3	(D)	BB	(D)
345	Screw machine products, bolts, etc.	-	11	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3452	Bolts, nuts, rivets, and washers	-	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
346	Metal forgings and stampings	E1	28	12	0.8	9.0	0.6	1.1	5.6	21.4	20.7	41.9	1.2	BB	(D)
3465	Automotive stampings	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3469	Metal stampings, n.e.c.	E2	25	10	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
347	Metal services, n.e.c.	E3	63	17	1.4	14.1	1.2	2.3	9.5	26.2	14.0	40.0	2.7	1.0	12.3
3471	Plating and polishing	E4	45	10	1.0	9.4	0.8	1.5	6.2	17.7	7.8	25.5	0.7	CC	(D)
3479	Metal coating and allied services	E2	18	7	0.4	4.7	0.4	0.7	3.3	8.5	6.3	14.5	2.0	BB	(D)
349	Miscellaneous fabricated metal products	-	82	38	6.8	74.1	4.6	8.9	48.1	166.9	194.2	354.2	8.4	3.4	53.0
3494	Valves and pipe fittings	-	12	10	1.9	21.7	1.3	2.7	12.2	53.1	33.5	83.8	3.2	1.1	21.0
3495	Wire springs	-	12	10	1.0	10.0	0.8	1.5	5.8	15.7	19.2	34.9	0.8	1.3	13.7
3496	Miscellaneous fabricated wire products	-	10	6	0.6	6.2	0.5	0.9	3.8	23.6	21.0	44.2	0.8	AA	(D)
3497	Metal foil and leaf	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3498	Fabricated pipe and fittings	-	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.5
3499	Fabricated metal products, n.e.c.	-	37	8	0.6	6.6	0.5	1.0	4.3	11.1	11.1	21.9	0.6	0.4	5.5
35	**Machinery, except electrical**	-	**841**	**208**	**33.0**	**425.9**	**21.1**	**40.7**	**209.1**	**958.3**	**1 078.3**	**1 973.7**	**87.4**	**30.7**	**729.1**
351	Engines and turbines	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3511	Turbines and turbine generator sets	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
352	Farm and garden machinery	-	47	14	3.4	35.3	2.5	4.7	21.6	104.3	91.2	194.9	3.7	2.2	26.9
3523	Farm machinery and equipment	-	43	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3524	Lawn and garden equipment	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
353	Construction and related machinery	-	34	15	1.7	20.6	1.1	2.1	11.3	54.8	57.7	113.6	(D)	EE	(D)
3531	Construction machinery	-	12	6	0.6	7.7	0.4	0.7	3.4	11.9	16.3	30.2	(D)	0.2	3.8
3535	Conveyors and conveying equipment	-	5	3	0.2	3.0	0.1	0.3	1.7	6.2	5.3	11.3	0.1	(NA)	(NA)
3536	Hoists, cranes, and monorails	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3537	Industrial trucks and tractors	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.0
354	Metalworking machinery	-	76	20	3.5	39.5	2.5	4.5	22.2	125.8	89.2	212.3	4.7	3.2	65.2
3542	Machine tools, metal forming types	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3544	Special dies, tools, jigs, and fixtures	E2	43	12	0.6	8.0	0.5	0.9	6.1	13.2	4.7	17.7	0.7	0.8	12.6
3545	Machine tool accessories	E1	12	2	0.3	3.4	0.3	0.4	2.6	3.8	4.8	8.1	(D)	BB	(D)
3546	Power driven hand tools	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
355	Special industry machinery	-	210	78	7.4	81.7	5.2	10.4	48.7	149.6	125.1	280.1	9.4	10.7	405.9
3551	Food products machinery	-	7	5	0.3	3.7	0.2	0.3	1.7	6.5	5.2	11.8	0.3	0.4	5.2
3552	Textile machinery	-	153	58	5.8	61.3	4.0	8.0	36.8	113.3	95.5	215.5	6.8	6.4	109.1
3553	Woodworking machinery	E1	15	6	0.6	6.2	0.5	1.0	4.2	8.5	11.1	19.6	1.2	EE	(D)
3559	Special industry machinery, n.e.c.	-	26	7	0.6	8.0	0.4	0.9	5.0	16.5	9.9	25.9	1.0	EE	(D)
356	General industrial machinery	-	71	30	4.6	53.2	3.2	6.4	28.5	120.5	110.5	232.0	6.3	2.3	35.1
3562	Ball and roller bearings	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3563	Air and gas compressors	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3564	Blowers and fans	-	16	7	1.1	10.3	0.8	1.7	6.4	21.1	17.0	37.6	0.9	0.4	6.5
3566	Speed changers, drives, and gears	E1	7	4	0.3	4.1	0.2	0.5	2.5	6.9	4.0	10.9	0.5	0.3	3.9
3569	General industrial machinery, n.e.c.	-	29	10	1.9	22.1	1.2	2.4	10.5	38.6	38.9	78.1	3.3	0.8	13.4
357	Office and computing machines	-	14	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3573	Electronic computing equipment	-	13	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3579	Office machines, n.e.c. and typewriters	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
35	**Machinery, except electrical**—Con.													
358	Refrigeration and service machinery	-	25	10	1.9	24.8	1.1	2.1	12.8	47.5	42.9	90.7	1.3	2.5	37.0
3585	Refrigeration and heating equipment	-	8	5	0.4	6.4	0.3	0.5	3.7	12.3	14.1	25.9	(D)	1.1	12.7
3586	Measuring and dispensing pumps	-	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3589	Service industry machinery, n.e.c.	-	13	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
359	Miscellaneous machinery, except electrical	E2	361	32	2.9	32.3	2.4	4.5	23.3	56.6	32.7	89.3	4.9	2.5	35.7
3592	Carburetors, pistons, rings, and valves	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3599	Machinery, except electrical, n.e.c.	E3	359	30	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
36	**Electric and electronic equipment**	-	**200**	**98**	**40.1**	**442.1**	**31.2**	**61.1**	**293.3**	**1 351.3**	**1 055.3**	**2 366.2**	**55.1**	**35.4**	**687.6**
361	Electric distributing equipment	-	31	13	4.3	46.1	3.3	6.6	29.9	137.2	123.2	255.8	8.9	3.4	57.8
3612	Transformers	-	9	6	2.1	27.7	1.6	3.3	17.6	70.5	57.1	124.4	4.0	EE	(D)
3613	Switchgear and switchboard apparatus	-	22	7	2.2	18.4	1.8	3.4	12.3	66.8	66.1	131.4	4.9	EE	(D)
362	Electrical industrial apparatus	-	25	15	6.4	69.2	4.7	9.3	43.0	212.0	131.1	340.9	9.7	4.6	87.9
3621	Motors and generators	-	6	6	1.7	15.4	1.2	2.7	9.8	32.5	25.4	56.9	1.9	1.9	31.5
3622	Industrial controls	-	14	6	3.4	39.4	2.5	4.6	24.2	133.1	63.2	195.7	(D)	1.6	39.4
3624	Carbon and graphite products	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3629	Electrical industrial apparatus, n.e.c.	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
363	Household appliances	-	12	8	5.3	45.8	4.7	8.8	35.9	177.7	139.1	314.7	2.7	4.6	89.9
3634	Electric housewares and fans	-	9	7	5.2	44.9	4.6	8.7	35.5	175.7	136.2	309.8	(D)	FF	(D)
364	Electric lighting and wiring equipment	-	28	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	81.8
3643	Current-carrying wiring devices	-	11	7	2.1	18.8	1.8	3.4	13.9	38.7	21.5	61.0	1.7	2.7	35.0
3645	Residential lighting fixtures	-	12	2	0.5	3.9	0.3	0.7	2.2	6.1	8.1	14.4	(D)	BB	(D)
3646	Commercial lighting fixtures	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3648	Lighting equipment, n.e.c.	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
365	Radio and TV receiving equipment	-	7	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3651	Radio and TV receiving sets	-	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
366	Communication equipment	-	33	14	9.2	125.5	6.1	11.6	71.1	324.3	272.4	578.5	12.3	FF	(D)
3661	Telephone and telegraph apparatus	-	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3662	Radio and TV communication equipment	-	27	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
367	Electronic components and accessories	-	40	21	5.1	49.2	4.4	8.4	36.3	149.6	74.6	217.3	4.9	FF	(D)
3675	Electronic capacitors	-	4	4	1.8	15.7	1.6	3.0	12.8	38.9	22.0	60.0	1.9	1.6	22.7
3676	Electronic resistors	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	26.8
3678	Electronic connectors	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3679	Electronic components, n.e.c.	-	22	6	0.6	4.9	0.6	1.0	3.3	11.2	14.8	21.9	(D)	CC	(D)
369	Miscellaneous electrical equipment and supplies	-	24	14	4.0	46.7	3.4	7.2	35.8	153.0	114.9	264.8	12.7	2.8	82.9
3691	Storage batteries	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3692	Primary batteries, dry and wet	-	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3699	Electrical equipment and supplies, n.e.c.	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
37	**Transportation equipment**	-	**177**	**53**	**11.3**	**118.9**	**9.2**	**18.4**	**86.8**	**312.9**	**317.4**	**617.1**	**16.4**	**8.7**	**188.7**
371	Motor vehicles and equipment	-	78	29	8.4	88.6	6.8	13.6	66.1	252.0	255.6	497.1	(D)	6.1	152.6
3713	Truck and bus bodies	-	27	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories	-	40	18	6.4	66.9	5.1	10.3	50.7	204.7	173.1	367.9	12.8	3.9	89.3
3715	Truck trailers	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
372	Aircraft and parts	-	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3728	Aircraft equipment, n.e.c.	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
373	Ship and boat building and repairing	-	61	11	2.1	20.0	1.7	3.4	14.3	41.1	40.1	80.7	(D)	2.0	27.1
3731	Ship building and repairing	-	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3732	Boat building and repairing	E1	52	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
379	Miscellaneous transportation equipment	-	24	8	0.4	4.1	0.3	0.6	2.4	6.3	12.1	18.9	(D)	0.4	4.9
3799	Transportation equipment, n.e.c.	-	12	7	0.4	3.6	0.3	0.5	2.0	5.2	10.5	16.1	(D)	AA	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
38	**Instruments and related products**	-	**78**	**27**	**8.4**	**101.6**	**6.0**	**12.1**	**60.1**	**276.4**	**181.1**	**444.9**	**10.8**	**8.5**	**149.8**
3811	Engineering and scientific instruments	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
382	Measuring and controlling devices	-	17	8	2.8	33.2	1.7	3.6	17.1	75.4	29.5	103.4	2.5	3.2	56.0
3824	Fluid meters and counting devices	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3825	Instruments to measure electricity	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3829	Measuring and controlling devices, n.e.c.	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
384	Medical instruments and supplies	-	30	10	2.2	26.6	1.8	3.6	17.6	58.7	38.2	87.5	3.1	2.7	24.6
3841	Surgical and medical instruments	-	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3842	Surgical appliances and supplies	-	22	6	0.6	4.7	0.5	1.0	3.2	11.9	9.1	19.0	0.1	EE	(D)
3843	Dental equipment and supplies	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3861	Photographic equipment and supplies	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3873	Watches, clocks, and watchcases	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
39	**Miscellaneous manufacturing industries**	-	**234**	**49**	**7.6**	**67.7**	**6.1**	**12.0**	**45.1**	**157.2**	**132.6**	**278.6**	**9.7**	**6.3**	**101.9**
3931	Musical instruments	-	10	4	0.8	6.3	0.7	1.3	4.5	13.3	14.6	26.8	0.3	CC	(D)
394	Toys and sporting goods	-	35	5	1.3	10.7	1.0	2.0	7.1	33.2	25.5	57.7	(D)	1.4	19.3
3944	Games, toys, and children's vehicles	-	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
395	Pens, pencils, office and art supplies	-	16	4	0.4	3.5	0.3	0.6	2.1	8.4	9.7	18.0	(D)	0.4	5.7
3951	Pens and mechanical pencils	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
396	Costume jewelry and notions	-	17	9	1.2	9.6	1.0	2.0	7.3	19.7	26.6	45.6	(D)	CC	(D)
3964	Needles, pins, and fasteners	-	9	6	1.1	8.7	0.9	1.8	6.7	17.8	24.9	42.1	(D)	CC	(D)
399	Miscellaneous manufactures	-	144	27	3.9	37.3	3.1	6.2	23.8	81.9	55.2	128.8	(D)	2.9	51.7
3991	Brooms and brushes	-	18	2	0.4	3.5	0.3	0.7	2.5	9.4	7.2	15.7	(D)	0.3	5.4
3993	Signs and advertising displays	E2	63	6	0.6	5.4	0.4	0.8	3.2	9.4	6.5	15.8	0.3	0.5	6.4
3995	Burial caskets	-	14	6	0.3	2.6	0.3	0.6	1.9	3.9	7.3	11.1	0.2	0.3	3.4
3999	Manufacturing industries, n.e.c.	-	49	13	2.6	25.8	2.0	4.1	16.1	59.2	34.2	86.2	2.9	1.8	36.5
–	**Administrative and auxiliary**	-	**217**	**136**	**25.9**	**476.0**	-	-	-	-	-	-	-	**(NA)**	**(NA)**

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Asheville SMSA	-	**248**	**117**	**19.8**	**193.3**	**14.4**	**27.6**	**116.9**	**425.3**	**389.2**	**799.2**	**27.0**	**21.8**	**311.6**
25	Furniture and fixtures	-	9	6	0.5	4.5	0.4	0.7	3.3	9.3	12.0	21.2	(D)	(NA)	(NA)
34	Fabricated metal products	-	22	10	0.7	7.0	0.5	1.0	4.4	14.9	17.7	33.0	0.7	0.5	6.2
344	Fabricated structural metal products	-	6	4	0.3	3.4	0.2	0.5	2.0	5.4	7.7	13.0	0.2	0.3	3.5
	Burlington SMSA	-	**255**	**124**	**20.1**	**186.8**	**16.8**	**32.8**	**134.4**	**382.3**	**584.5**	**961.7**	**19.6**	**24.3**	**294.3**
22	Textile mill products	-	120	76	14.7	124.7	13.2	25.8	101.9	255.5	478.8	734.6	14.7	18.5	212.7
225	Knitting mills	-	82	50	6.8	53.1	6.1	11.4	41.6	113.9	171.9	286.6	5.2	10.0	99.3
2251	Women's hosiery, except socks	-	19	12	1.6	11.9	1.3	2.5	8.4	27.9	46.9	74.9	(D)	5.0	44.0
2252	Hosiery, n.e.c.	-	35	23	2.9	21.1	2.7	5.1	18.1	49.6	55.8	106.2	1.1	2.3	25.1
2258	Warp knit fabric mills	-	10	8	1.2	10.1	1.0	1.8	7.2	17.5	33.2	51.2	0.7	1.2	12.2
226	Textile finishing, except wool	-	5	5	1.4	14.1	1.2	2.5	11.2	33.3	124.5	158.3	(D)	1.5	34.2
228	Yarn and thread mills	-	16	11	3.1	27.4	2.8	5.6	22.9	59.7	104.0	163.1	4.9	3.7	47.9
2281	Yarn mills, except wool	-	7	5	1.3	10.4	1.2	2.3	8.9	27.2	24.4	51.6	(D)	0.9	7.4
23	Apparel and other textile products	E1	15	8	0.4	2.7	0.3	0.6	1.7	6.2	4.6	10.7	0.1	(NA)	(NA)
25	Furniture and fixtures	-	3	3	0.6	5.0	0.5	1.0	3.6	8.4	6.1	14.9	(D)	0.7	8.5
251	Household furniture	-	3	3	0.6	5.0	0.5	1.0	3.6	8.4	6.1	14.9	(D)	0.7	8.5
27	Printing and publishing	-	17	5	0.3	3.3	0.2	0.4	1.9	12.9	4.4	17.2	0.3	(NA)	(NA)
35	Machinery, except electrical	-	22	5	0.4	4.0	0.3	0.6	2.7	6.4	6.9	13.7	0.4	(NA)	(NA)
	Charlotte-Gastonia SMSA	-	**1 401**	**548**	**87.1**	**894.7**	**64.2**	**126.2**	**547.8**	**1 885.1**	**2 592.6**	**4 460.9**	**108.5**	**88.4**	**1 239.3**
20	Food and kindred products	-	65	33	8.5	87.1	4.6	9.0	38.9	205.8	394.3	603.0	15.2	8.3	123.2
201	Meat products	-	13	3	1.4	9.8	1.2	2.1	8.0	10.4	80.3	94.2	(D)	1.0	11.8
2016	Poultry dressing plants	-	5	3	1.4	9.5	1.2	2.1	7.7	10.1	78.7	92.4	(D)	1.0	10.9
205	Bakery products	-	12	11	5.5	60.1	2.4	4.8	21.1	133.3	88.5	221.5	(D)	4.9	71.7
208	Beverages	-	8	5	0.4	4.4	0.2	0.5	2.0	14.2	39.1	53.0	(D)	0.8	10.1
22	Textile mill products	-	170	117	29.6	245.7	26.8	53.4	208.3	475.0	880.3	1 360.1	26.0	35.1	382.3
2221	Weaving mills, manmade fiber and silk	-	5	5	2.5	23.6	2.2	4.3	18.9	50.1	85.1	140.4	(D)	3.8	47.1
225	Knitting mills	-	56	32	5.5	43.5	4.9	9.1	35.1	73.7	176.2	248.9	6.9	6.1	65.8
2253	Knit outerwear mills	E3	8	4	0.7	5.2	0.7	1.3	4.2	10.0	9.3	19.0	(D)	1.0	10.8
2257	Circular knit fabric mills	-	30	19	3.0	25.3	2.6	4.7	19.7	45.9	132.4	178.7	3.9	2.9	40.0
228	Yarn and thread mills	-	63	58	18.5	149.4	17.0	34.8	129.9	289.5	475.4	762.8	14.1	20.1	202.0
2281	Yarn mills, except wool	-	52	48	15.9	128.3	14.8	30.8	114.9	235.8	381.3	618.2	13.1	16.9	162.1
229	Miscellaneous textile goods	-	24	10	1.9	18.8	1.7	3.1	15.7	44.5	108.3	155.1	1.6	(NA)	(NA)
23	Apparel and other textile products	-	71	41	5.4	36.2	4.8	8.9	27.6	58.5	77.6	136.1	2.0	5.0	39.6
2391	Curtains and draperies	-	8	2	0.6	4.4	0.6	1.1	3.6	3.8	1.7	5.5	(D)	0.6	3.1
2392	House furnishings, n.e.c.	-	6	5	0.8	5.5	0.7	1.4	3.7	13.2	23.7	36.7	0.6	(NA)	(NA)
2396	Automotive and apparel trimmings	E2	10	5	0.3	3.6	0.3	0.6	2.9	6.9	9.3	16.1	0.2	0.4	3.3
24	Lumber and wood products	E2	63	17	1.5	12.4	1.2	2.1	9.4	34.4	55.6	89.8	1.3	1.8	17.8
25	Furniture and fixtures	E1	33	12	1.1	9.6	0.9	1.7	7.2	15.7	15.1	30.5	(D)	1.0	11.2
251	Household furniture	E1	18	7	0.7	5.4	0.5	1.0	4.2	9.0	9.8	18.7	(D)	0.5	6.0
2512	Upholstered household furniture	-	4	4	0.4	4.2	0.4	0.7	3.4	7.0	7.4	14.2	(D)	(NA)	(NA)
273	Books	-	7	3	0.5	4.9	0.3	0.6	2.0	11.9	6.8	18.4	(D)	0.5	6.7
2761	Manifold business forms	-	7	5	0.3	4.9	0.3	0.6	4.0	10.8	12.0	22.6	0.8	0.4	5.3
28	Chemicals and allied products	-	79	32	3.7	46.6	2.3	4.7	23.4	185.8	260.1	442.4	14.8	3.1	95.6
281	Industrial inorganic chemicals	-	7	1	0.3	4.4	0.3	0.6	4.1	23.4	22.6	45.8	2.1	(NA)	(NA)
282	Plastics materials and synthetics	-	6	6	0.3	4.0	0.2	0.5	2.7	22.9	39.1	61.6	(D)	0.4	8.2
284	Soaps, cleaners, and toilet goods	-	19	7	0.4	4.8	0.2	0.4	1.8	29.5	47.8	76.9	0.7	0.4	15.8
286	Industrial organic chemicals	-	8	5	1.0	13.7	0.6	1.3	6.7	48.2	47.8	89.7	(D)	0.8	36.4
289	Miscellaneous chemical products	-	28	8	1.2	14.6	0.8	1.6	6.5	49.0	57.5	104.9	2.5	0.9	23.6
2891	Adhesives and sealants	-	6	2	0.3	4.8	0.2	0.5	2.4	12.4	21.9	34.1	(D)	(NA)	(NA)
2899	Chemical preparations, n.e.c.	-	12	4	0.8	7.8	0.5	1.0	3.2	27.3	23.6	50.0	0.9	0.6	11.9
30	Rubber and miscellaneous plastics products	-	46	23	3.8	41.7	3.0	5.8	28.7	122.1	187.5	308.0	7.5	2.6	61.9
34	Fabricated metal products	-	125	40	3.5	41.3	2.7	5.3	25.7	88.1	102.2	187.3	4.3	3.5	57.7
344	Fabricated structural metal products	-	56	20	1.3	15.2	0.9	1.9	9.1	32.6	61.4	92.7	1.1	1.5	22.1
3441	Fabricated structural metal	-	15	6	0.5	5.4	0.4	0.7	3.2	9.7	17.4	27.1	0.2	0.6	8.4
3444	Sheet metal work	-	23	7	0.3	3.6	0.2	0.4	2.3	8.1	12.6	19.7	(D)	0.4	4.6
347	Metal services, n.e.c.	E2	24	4	0.4	4.3	0.3	0.6	2.6	8.6	3.5	12.1	(D)	0.3	4.8
349	Miscellaneous fabricated metal products	-	23	7	1.0	12.0	0.8	1.5	8.1	23.6	19.2	41.1	1.7	0.8	13.6
3499	Fabricated metal products, n.e.c.	-	14	3	0.3	3.4	0.3	0.4	2.1	6.4	4.4	10.6	0.4	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Charlotte-Gastonia SMSA—Con.													
35	Machinery, except electrical	–	273	74	10.0	119.7	6.5	12.4	64.0	313.1	231.6	536.6	13.1	9.3	184.5
355	Special industry machinery	–	103	40	3.9	43.7	2.5	5.0	23.8	78.5	69.4	151.2	4.7	5.4	112.0
3552	Textile machinery	–	92	34	3.6	39.8	2.3	4.5	21.4	70.8	62.7	137.0	4.1	4.0	79.1
356	General industrial machinery	–	28	12	2.1	26.1	1.4	2.7	12.4	58.6	44.9	97.8	2.9	0.5	6.6
3569	General industrial machinery, n.e.c.	–	10	4	1.4	16.9	0.9	1.8	7.7	27.0	30.1	58.0	2.1	(NA)	(NA)
37	Transportation equipment	–	23	11	2.9	33.2	2.4	4.9	25.3	78.4	91.1	167.7	(D)	2.8	73.4
371	Motor vehicles and equipment	–	16	8	2.7	30.4	2.2	4.6	24.1	73.0	85.0	156.2	(D)	(NA)	(NA)
38	Instruments and related products	–	18	7	1.5	19.1	1.2	2.3	12.4	33.0	30.7	61.9	1.8	0.8	14.0
39	Miscellaneous manufacturing industries	–	41	6	0.9	7.2	0.7	1.4	4.7	15.7	15.9	31.5	1.6	0.7	14.0
--	Administrative and auxiliary	–	62	37	4.6	77.3	–	–	–	–	–	–	–	(NA)	(NA)
	Fayetteville SMSA	–	**141**	**53**	**9.9**	**103.3**	**7.8**	**15.5**	**73.9**	**250.9**	**541.9**	**795.1**	**33.1**	**10.5**	**195.1**
23	Apparel and other textile products	E1	13	7	0.9	5.0	0.8	1.4	4.3	4.7	6.0	11.2	0.1	0.9	4.6
27	Printing and publishing	–	13	1	0.4	3.8	0.2	0.3	1.6	6.9	3.6	10.5	(D)	(NA)	(NA)
34	Fabricated metal products	–	3	3	0.5	3.5	0.4	0.9	2.6	12.8	15.9	29.0	0.3	(NA)	(NA)
344	Fabricated structural metal products	–	3	3	0.5	3.5	0.4	0.9	2.6	12.8	15.9	29.0	0.3	(NA)	(NA)
	Greensboro—Winston-Salem—High Point SMSA	–	**1 741**	**729**	**144.2**	**1 624.5**	**106.9**	**206.2**	**975.3**	**4 285.3**	**4 291.1**	**8 532.2**	**221.5**	**138.0**	**2 593.4**
201	Meat products	–	20	6	0.8	7.0	0.6	1.0	4.1	10.9	52.4	63.5	(D)	0.8	10.3
2013	Sausages and other prepared meats	–	9	2	0.3	2.5	0.2	0.2	1.2	3.6	22.9	26.7	(D)	(NA)	(NA)
204	Grain mill products	–	17	4	0.4	4.4	0.2	0.4	2.1	11.3	34.7	46.2	(D)	0.3	9.4
205	Bakery products	–	19	11	1.6	14.8	1.0	2.0	8.4	31.1	22.2	53.3	(D)	1.4	18.7
208	Beverages	E1	9	8	1.5	23.5	0.8	1.4	11.8	125.9	148.0	274.1	(D)	1.6	83.7
209	Miscellaneous foods and kindred products	–	11	4	0.4	4.0	0.3	0.5	3.2	6.7	9.3	16.0	(D)	(NA)	(NA)
225	Knitting mills	–	116	79	16.6	138.5	14.4	27.9	108.3	321.7	385.5	699.3	18.3	19.2	187.3
2251	Women's hosiery, except socks	–	31	26	6.2	47.8	5.4	9.8	38.4	111.7	66.7	175.8	4.9	8.4	70.8
2252	Hosiery, n.e.c.	–	49	31	4.9	34.7	4.5	8.4	29.4	69.9	91.4	162.2	(D)	5.3	50.5
2257	Circular knit fabric mills	–	19	13	3.3	31.0	2.9	6.0	25.1	74.6	126.0	195.8	9.2	2.3	29.9
226	Textile finishing, except wool	–	14	9	2.1	21.3	1.5	3.2	14.3	34.0	42.9	77.5	2.4	3.4	40.0
2262	Finishing plants, synthetics	–	8	6	1.9	19.2	1.3	2.8	13.0	29.2	33.8	63.2	(D)	(NA)	(NA)
228	Yarn and thread mills	–	21	16	4.3	37.7	3.9	8.2	31.2	85.0	187.5	270.0	6.4	5.9	65.8
2282	Throwing and winding mills	–	10	7	2.2	20.0	2.0	4.4	15.3	49.1	132.4	178.2	3.3	3.2	42.3
254	Partitions and fixtures	–	9	4	0.4	3.1	0.3	0.5	2.1	6.3	7.0	13.2	(D)	0.4	4.5
27	Printing and publishing	E1	185	37	3.9	42.2	2.6	4.8	24.8	86.0	41.4	127.2	(D)	3.2	47.1
2711	Newspapers	–	20	7	1.4	16.8	0.7	1.3	8.5	34.1	11.4	45.5	(D)	1.3	22.1
275	Commercial printing	E1	124	17	1.1	12.7	0.8	1.4	7.9	24.0	16.6	40.5	(D)	1.0	14.9
278	Blankbooks and bookbinding	E1	9	6	0.6	5.7	0.6	1.0	4.1	12.4	3.5	15.9	(D)	0.5	3.6
284	Soaps, cleaners, and toilet goods	E1	11	7	0.4	5.6	0.2	0.4	1.8	16.6	22.2	38.6	1.0	(NA)	(NA)
2851	Paints and allied products	–	7	6	0.9	15.7	0.4	0.8	4.5	33.6	71.3	104.6	1.8	0.8	22.4
3442	Metal doors, sash, and trim	–	8	5	0.6	5.1	0.4	0.8	2.9	10.1	15.9	25.8	(D)	0.4	4.7
3444	Sheet metal work	E2	10	5	1.1	13.6	0.7	1.5	7.1	17.7	20.3	38.1	0.7	0.4	4.1
347	Metal services, n.e.c.	E7	18	5	0.6	5.4	0.5	0.9	3.8	10.1	4.6	14.7	0.6	0.5	5.5
349	Miscellaneous fabricated metal products	–	25	14	3.3	34.6	2.0	3.8	24.3	72.7	114.0	183.1	2.6	1.4	18.6
354	Metalworking machinery	E1	24	3	0.3	4.5	0.2	0.5	2.9	8.9	6.9	15.8	1.1	(NA)	(NA)
358	Refrigeration and service machinery	–	8	5	1.3	16.9	0.9	1.6	8.7	31.9	25.2	58.2	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	50	9	0.5	5.6	0.4	0.8	3.8	8.9	6.4	15.2	0.7	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E1	50	9	0.5	5.6	0.4	0.8	3.8	8.9	6.4	15.2	0.7	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	–	10	6	2.7	31.7	2.3	5.1	24.6	106.5	83.6	188.3	8.9	(NA)	(NA)
--	Administrative and auxiliary	–	62	48	12.9	257.8	–	–	–	–	–	–	–	(NA)	(NA)
	Norfolk-Virginia Beach-Portsmouth, Va.-N.C., SMSA	–	**537**	**190**	**26.7**	**326.2**	**19.4**	**38.9**	**211.3**	**1 083.3**	**1 850.2**	**2 950.9**	**50.1**	**27.6**	**551.7**
20	Food and kindred products	–	76	50	5.5	54.0	3.7	7.3	32.5	375.5	521.1	900.1	15.9	5.8	174.7
202	Dairy products	–	8	7	0.4	4.1	0.2	0.4	1.6	12.8	32.8	45.5	0.5	0.5	9.4
205	Bakery products	–	9	8	0.8	8.2	0.4	0.7	3.2	19.6	15.0	34.5	1.5	1.5	30.5
208	Beverages	–	9	7	0.6	5.8	0.2	0.5	2.4	19.3	21.8	40.8	1.0	0.5	9.2
209	Miscellaneous foods and kindred products	–	21	11	1.4	13.7	1.1	2.1	9.5	90.5	115.2	206.4	6.2	0.9	57.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Norfolk-Virginia Beach-Portsmouth, Va.-N.C., SMSA—Con.														
23	Apparel and other textile products	–	27	9	0.8	6.0	0.7	1.3	3.9	13.3	10.9	24.0	0.9	0.5	4.9
232	Men's and boys' furnishings	–	7	4	0.3	2.8	0.3	0.5	1.4	5.3	5.9	11.1	(D)	(NA)	(NA)
24	Lumber and wood products	–	56	23	2.2	20.6	1.8	3.5	15.2	42.6	138.5	180.9	3.2	2.5	42.6
242	Sawmills and planing mills	E1	15	8	0.4	2.9	0.4	0.7	2.4	5.4	11.9	17.3	0.6	0.4	4.7
243	Millwork, plywood, and structural members	–	19	9	1.0	9.8	0.8	1.5	7.0	21.2	109.2	131.1	(D)	1.1	25.7
249	Miscellaneous wood products	–	6	4	0.7	7.1	0.6	1.1	5.1	14.3	16.0	29.5	0.6	0.7	9.4
25	Furniture and fixtures	E4	14	4	0.3	2.2	0.2	0.4	1.2	5.3	5.4	10.6	(D)	0.3	3.5
27	Printing and publishing	E1	93	9	2.0	21.7	0.9	1.6	8.9	47.1	22.8	69.8	1.6	1.9	29.3
275	Commercial printing	E3	63	4	0.5	4.1	0.3	0.5	2.9	8.1	8.5	16.5	0.6	(NA)	(NA)
28	Chemicals and allied products	–	28	13	1.5	20.6	0.8	1.7	10.4	45.9	124.2	171.7	5.4	1.3	29.1
287	Agricultural chemicals	–	9	7	0.6	6.3	0.4	0.8	3.8	20.4	56.7	80.1	2.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	13	4	0.5	5.4	0.4	0.8	3.6	15.3	17.7	33.6	(D)	0.4	4.9
3079	Miscellaneous plastics products	E1	9	3	0.5	5.0	0.4	0.8	3.4	14.6	16.0	31.2	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	38	10	1.3	13.2	0.9	1.7	8.4	34.8	39.0	73.9	3.2	1.3	22.6
327	Concrete, gypsum, and plaster products	–	29	6	0.8	9.3	0.6	1.2	5.9	25.9	32.1	57.4	2.8	0.9	17.3
3273	Ready-mixed concrete	–	13	3	0.3	3.9	0.2	0.3	1.9	9.3	13.7	22.9	1.7	(NA)	(NA)
33	Primary metal industries	E1	9	5	0.5	5.4	0.4	0.8	4.0	8.6	8.9	17.2	0.6	0.6	9.0
34	Fabricated metal products	–	44	13	1.1	12.2	0.8	1.5	7.8	20.1	24.0	43.4	1.0	1.4	15.4
3441	Fabricated structural metal	–	10	6	0.5	5.5	0.4	0.7	3.5	9.4	12.4	21.1	0.2	0.6	5.3
3442	Metal doors, sash, and trim	–	5	3	0.3	2.3	0.2	0.3	1.5	3.9	4.0	7.9	(D)	(NA)	(NA)
35	Machinery, except electrical	–	44	13	1.2	14.9	1.0	1.8	10.0	28.1	76.2	108.5	1.7	0.9	11.0
359	Miscellaneous machinery, except electrical	–	27	6	0.5	6.3	0.4	0.8	4.7	7.4	6.3	17.0	0.4	0.4	6.3
3599	Machinery, except electrical, n.e.c.	–	27	6	0.5	6.3	0.4	0.8	4.7	7.4	6.3	17.0	0.4	0.4	6.3
3731	Ship building and repairing	–	12	9	2.7	39.7	2.4	5.6	31.5	56.8	25.2	82.0	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	16	8	0.7	9.1	–	–	–	–	–	–	–	(NA)	(NA)
	Raleigh-Durham SMSA	–	550	179	36.7	474.3	22.4	43.8	217.1	1 109.4	1 495.3	2 531.1	75.7	32.2	567.6
20	Food and kindred products	–	32	18	2.9	27.0	1.8	3.5	13.5	66.7	208.4	274.6	7.4	3.2	44.8
201	Meat products	–	6	4	1.0	8.3	0.8	1.5	6.0	13.3	55.7	68.8	(D)	1.6	11.4
208	Beverages	E1	6	5	0.6	6.0	0.2	0.4	1.2	16.2	15.9	32.2	(D)	0.4	7.5
2086	Bottled and canned soft drinks	E1	6	5	0.6	6.0	0.2	0.4	1.2	16.2	15.9	32.2	(D)	(NA)	(NA)
22	Textile mill products	–	21	15	3.9	35.5	3.5	6.9	29.3	60.5	112.1	179.9	(D)	4.2	41.0
25	Furniture and fixtures	E5	15	4	0.3	2.5	0.3	0.5	1.8	4.2	4.5	8.8	0.1	0.4	3.7
251	Household furniture	E5	10	4	0.3	2.4	0.3	0.4	1.7	3.9	4.4	8.4	0.1	0.3	3.1
27	Printing and publishing	–	125	19	2.1	22.4	1.1	2.0	10.6	51.2	37.8	88.8	2.7	1.8	28.1
275	Commercial printing	E1	72	11	0.8	8.8	0.6	1.2	6.3	18.6	22.8	41.2	1.8	0.6	9.8
28	Chemicals and allied products	–	17	5	0.8	11.5	0.4	1.1	5.4	51.1	25.8	76.4	1.6	0.4	12.0
30	Rubber and miscellaneous plastics products	–	13	5	0.3	2.8	0.2	0.5	2.0	12.3	9.2	21.3	1.0	(NA)	(NA)
34	Fabricated metal products	–	29	15	2.2	26.6	1.5	3.1	14.6	73.9	52.1	124.3	3.6	1.0	21.0
349	Miscellaneous fabricated metal products	–	5	5	1.3	15.5	0.8	1.8	8.3	44.9	22.5	66.3	2.7	(NA)	(NA)
35	Machinery, except electrical	–	45	17	6.3	117.1	2.1	4.2	25.0	201.5	481.7	623.0	(D)	5.1	70.2
36	Electric and electronic equipment	–	38	16	4.8	52.0	3.3	6.2	28.2	155.6	73.3	224.2	8.3	2.6	39.6
366	Communication equipment	–	8	4	2.2	22.6	1.3	2.4	9.7	58.6	32.1	86.6	(D)	(NA)	(NA)
367	Electronic components and accessories	–	12	5	0.7	7.9	0.6	1.2	6.0	32.1	8.0	39.7	0.6	(NA)	(NA)
--	Administrative and auxiliary	–	22	15	2.8	55.4	–	–	–	–	–	–	–	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Wilmington SMSA	-	183	64	13.0	166.6	9.3	18.4	103.6	747.8	748.3	1 508.4	29.2	12.1	481.7
20	Food and kindred products	-	20	8	0.7	6.8	0.4	0.7	4.1	16.4	17.1	33.6	1.6	0.8	12.5
23	Apparel and other textile products	E1	9	6	1.5	9.0	1.1	1.9	5.7	18.5	17.3	35.2	0.3	1.8	17.3
27	Printing and publishing	E1	21	4	0.3	3.3	0.2	0.4	1.8	8.3	3.2	11.5	(D)	0.3	4.1
28	Chemicals and allied products	-	22	16	4.0	64.1	2.8	5.5	39.1	261.7	426.0	695.5	18.7	2.8	130.5
2875	Fertilizers, mixing only	-	5	5	0.3	2.5	0.2	0.4	1.3	7.2	25.2	32.4	(D)	0.3	5.5
32	Stone, clay, and glass products	-	10	2	0.3	3.9	0.2	0.4	3.1	12.4	12.5	24.8	0.3	0.3	11.9
35	Machinery, except electrical	-	8	4	0.4	4.5	0.3	0.7	3.6	7.6	3.2	10.7	0.1	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Alamance County (Coextensive with Burlington, N.C., SMSA; see table 6.)													
	Alexander County	-	80	25	3.4	25.5	3.1	5.9	21.9	50.2	75.0	124.9	4.9	2.8	27.2
2512	Upholstered household furniture	-	12	7	1.4	10.7	1.3	2.3	9.4	21.1	27.3	48.1	(D)	(NA)	(NA)
	Alleghany County	-	19	4	1.3	8.0	1.2	2.2	7.0	11.7	16.7	27.6	1.3	1.3	13.1
	Anson County	-	63	23	3.5	29.1	3.1	6.1	21.7	65.1	76.3	142.1	5.6	3.1	40.5
	Ashe County	-	51	10	2.8	20.0	2.7	4.9	18.1	43.4	31.9	74.4	2.0	2.4	24.5
	Beaufort County	-	73	25	5.0	44.0	4.1	8.3	31.7	93.0	123.7	216.2	9.1	4.4	45.0
	Bertie County	-	41	13	2.4	19.4	2.2	4.1	14.7	30.0	64.1	92.2	4.3	1.4	14.3
	Bladen County	-	72	15	2.4	17.2	2.1	4.3	13.4	40.3	44.7	84.9	2.7	2.3	19.3
	Brunswick County	-	48	8	0.7	8.3	0.6	1.2	5.4	22.5	32.2	53.5	2.7	0.5	7.9
	Burke County	-	154	75	17.8	154.6	14.9	28.3	107.7	271.1	376.2	645.6	13.6	19.4	213.7
2252	Hosiery, n.e.c.	E1	30	16	1.1	6.4	1.0	1.5	5.2	8.5	14.7	23.8	(D)	(NA)	(NA)
	Cabarrus County	-	111	53	21.1	176.1	18.6	34.6	144.1	335.8	472.6	754.3	16.9	25.6	206.0
2251	Women's hosiery, except socks	-	16	10	1.4	8.8	1.3	2.1	7.1	20.1	30.5	51.4	(D)	(NA)	(NA)
	Caldwell County	-	162	83	17.2	144.5	15.1	30.6	113.3	286.8	296.9	583.0	13.6	16.2	191.7
	Carteret County	-	58	13	1.7	13.4	1.5	2.7	10.2	29.2	48.0	78.1	2.4	1.3	18.7

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Catawba County	-	560	272	35.5	306.6	30.0	56.2	226.0	614.1	766.1	1 371.7	32.1	34.0	389.6
2251	Women's hosiery, except socks	-	13	8	1.3	9.0	1.1	2.0	7.6	16.7	17.9	34.4	(D)	(NA)	(NA)
2252	Hosiery, n.e.c.	E1	85	43	3.9	25.4	3.5	6.1	19.9	42.8	68.6	110.1	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	E2	19	5	0.6	4.0	0.5	0.9	3.1	5.6	3.6	9.1	(D)	(NA)	(NA)
242	Sawmills and planing mills	E1	58	19	1.1	7.5	1.0	1.8	6.2	11.6	10.9	22.3	0.9	1.0	7.7
2426	Hardwood dimension and flooring	E1	49	16	0.9	6.5	0.9	1.6	5.3	10.3	8.6	18.7	0.8	(NA)	(NA)
251	Household furniture	-	135	89	14.1	120.7	12.2	22.5	93.5	214.4	240.1	452.2	10.5	12.9	144.4
2512	Upholstered household furniture	-	99	71	10.5	89.7	9.0	15.9	69.6	156.6	188.2	342.6	6.8	(NA)	(NA)
3079	Miscellaneous plastics products	-	22	18	1.6	13.3	1.3	2.7	9.8	35.2	54.0	88.1	1.9	(NA)	(NA)
--	Administrative and auxiliary	-	5	5	0.5	6.9	-	-	-	-	-	-	-	(NA)	(NA)
	Chatham County	-	87	31	5.4	47.6	4.7	8.9	36.8	120.9	209.1	329.3	10.9	4.9	60.0
	Cherokee County	-	33	12	2.0	15.0	1.7	3.5	11.9	33.6	29.5	62.1	1.3	2.9	25.3
	Chowan County	-	31	13	1.4	12.3	1.3	2.6	9.6	25.5	30.9	55.9	1.3	1.2	16.7
	Cleveland County	-	167	74	15.9	155.8	13.5	27.0	121.1	344.8	477.8	814.7	38.3	16.4	246.7
2257	Circular knit fabric mills	E1	5	4	0.7	6.2	0.6	1.1	4.4	13.8	30.3	45.2	(D)	(NA)	(NA)
2281	Yarn mills, except wool	-	10	9	1.8	15.1	1.6	3.1	12.5	31.3	38.6	70.6	4.4	(NA)	(NA)
	Columbus County	-	93	28	5.2	57.8	4.3	8.8	43.6	164.9	198.2	363.3	29.6	5.0	89.6
	Craven County	-	97	32	3.4	36.6	2.7	5.2	27.0	97.7	129.9	224.1	12.4	3.3	46.0
24	Lumber and wood products	E2	51	9	0.6	5.4	0.5	1.0	4.4	12.0	15.0	27.0	1.3	0.5	6.3
	Cumberland County (Coextensive with Fayetteville, N.C., SMSA; see table 6.)														
	Davidson County	-	283	107	23.4	212.6	19.9	38.7	158.6	427.8	422.8	844.5	25.2	21.0	261.3
22	Textile mill products	-	28	19	4.9	40.9	4.4	8.4	34.4	78.8	109.8	186.0	6.9	4.8	50.3
2252	Hosiery, n.e.c.	-	14	10	1.3	8.1	1.2	2.0	7.1	14.4	15.5	29.9	0.1	(NA)	(NA)
228	Yarn and thread mills	-	4	4	1.0	8.3	1.0	2.0	7.6	19.8	26.0	46.4	(D)	(NA)	(NA)
2512	Upholstered household furniture	E1	23	6	0.6	4.8	0.5	0.9	3.5	8.5	8.6	16.6	0.3	(NA)	(NA)
--	Administrative and auxiliary	-	6	3	0.5	7.7	-	-	-	-	-	-	-	(NA)	(NA)
	Davie County	-	51	20	2.8	25.5	2.2	3.7	15.7	56.4	166.8	228.1	9.0	2.6	27.0
23	Apparel and other textile products	-	9	6	0.6	3.5	0.5	0.8	2.5	5.3	2.8	8.1	0.1	0.7	3.5
	Duplin County	-	61	19	3.6	29.4	3.1	6.2	23.6	62.0	150.2	215.9	6.3	3.7	46.0
22	Textile mill products	-	6	5	1.6	15.7	1.4	2.9	12.8	31.7	80.1	114.1	5.6	(NA)	(NA)
23	Apparel and other textile products	-	7	7	0.7	4.4	0.6	1.1	3.4	10.4	13.9	24.1	0.1	(NA)	(NA)
	Durham County	-	146	56	16.0	248.8	8.1	15.6	91.0	546.4	984.1	1 463.5	44.0	14.6	301.5
27	Printing and publishing	-	32	4	0.6	7.0	0.4	0.7	3.9	16.0	16.5	32.4	1.0	(NA)	(NA)
--	Administrative and auxiliary	-	12	10	2.3	46.0	-	-	-	-	-	-	-	(NA)	(NA)
	Edgecombe County	-	59	35	8.6	62.7	5.4	11.0	44.2	185.1	223.0	406.4	13.1	6.5	96.4
22	Textile mill products	-	12	10	2.5	21.8	2.1	4.4	16.7	43.9	67.1	112.7	5.6	2.4	30.7
	Forsyth County	-	292	121	41.7	572.7	28.7	55.2	335.2	2 140.0	1 707.0	3 828.1	90.4	38.7	1 155.4
20	Food and kindred products	E1	28	14	2.6	34.9	1.5	2.8	18.2	123.5	180.6	304.4	2.7	2.2	95.0
205	Bakery products	-	9	6	0.9	8.7	0.6	1.1	5.0	18.6	15.4	34.0	0.7	0.7	8.2
22	Textile mill products	-	14	8	5.2	46.3	4.4	8.6	36.7	122.3	95.5	214.1	(D)	(NA)	(NA)
34	Fabricated metal products	-	32	18	5.0	58.5	3.2	6.1	39.7	107.3	198.3	304.2	5.1	1.8	40.3
344	Fabricated structural metal products	E1	14	9	1.5	17.3	1.0	1.9	9.7	27.0	39.2	67.6	1.2	0.5	10.1
--	Administrative and auxiliary	-	18	16	4.7	96.9	-	-	-	-	-	-	-	(NA)	(NA)
	Franklin County	-	58	15	2.4	17.2	2.2	3.9	14.4	35.7	48.5	81.8	4.1	2.2	22.4
23	Apparel and other textile products	-	7	4	0.6	3.5	0.5	1.0	3.0	6.6	7.5	14.0	(Z)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Gaston County	-	**423**	**182**	**38.3**	**349.2**	**31.9**	**63.4**	**259.4**	**722.3**	**1 065.6**	**1 791.0**	**45.3**	**42.3**	**514.6**
22	Textile mill products	-	107	84	25.1	208.4	22.9	45.8	178.1	404.4	765.3	1 173.4	20.7	29.2	312.4
225	Knitting mills	-	34	22	3.8	30.1	3.4	6.5	25.1	45.2	121.2	165.8	3.5	4.2	41.2
2257	Circular knit fabric mills	-	17	12	1.9	16.5	1.7	3.2	13.2	26.2	87.5	114.4	2.6	(NA)	(NA)
228	Yarn and thread mills	-	56	53	17.5	141.9	16.1	33.0	123.1	278.4	458.0	733.9	14.1	18.9	190.4
23	Apparel and other textile products	E1	20	11	1.1	7.2	1.0	1.9	5.7	13.3	14.7	27.7	0.2	1.6	14.6
232	Men's and boys' furnishings	E2	8	3	0.5	3.1	0.5	0.9	2.7	4.6	5.9	10.5	0.1	0.6	4.8
27	Printing and publishing	-	34	6	0.6	6.2	0.3	0.6	2.6	16.8	7.4	24.1	0.9	(NA)	(NA)
28	Chemicals and allied products	-	12	6	0.8	10.0	0.5	1.0	6.0	38.1	61.4	105.5	5.6	(NA)	(NA)
34	Fabricated metal products	E1	32	5	0.5	5.4	0.4	0.7	3.1	12.4	16.4	28.2	(D)	(NA)	(NA)
35	Machinery, except electrical	-	129	31	4.1	43.8	2.6	5.0	22.8	112.6	85.4	195.0	5.5	(NA)	(NA)
355	Special industry machinery	-	65	20	2.3	25.6	1.5	3.1	14.7	50.5	38.4	87.9	2.9	3.3	72.5
39	Miscellaneous manufacturing industries	-	8	4	0.6	4.7	0.5	1.1	3.4	10.8	12.3	22.9	1.2	(NA)	(NA)
--	Administrative and auxiliary	-	9	9	0.9	13.7	-	-	-	-	-	-	-	(NA)	(NA)
	Granville County	-	**47**	**23**	**3.2**	**28.3**	**2.5**	**5.1**	**18.8**	**65.1**	**120.6**	**185.4**	**6.4**	**3.3**	**43.7**
22	Textile mill products	-	11	10	1.3	12.1	1.1	2.3	8.7	21.8	62.7	84.7	4.2	1.7	20.0
	Guilford County	-	**836**	**373**	**55.8**	**634.2**	**38.5**	**75.1**	**331.8**	**1 267.4**	**1 383.8**	**2 644.1**	**65.2**	**58.0**	**912.8**
225	Knitting mills	-	42	27	4.9	44.0	4.1	8.4	31.1	113.4	159.6	271.3	7.6	7.0	77.9
2251	Women's hosiery, except socks	-	8	7	0.7	4.5	0.7	1.1	3.7	7.5	7.8	15.5	0.3	(NA)	(NA)
2252	Hosiery, n.e.c.	-	15	11	1.9	13.4	1.7	3.3	10.7	23.8	24.7	48.9	0.5	(NA)	(NA)
228	Yarn and thread mills	-	10	7	1.8	15.8	1.6	3.3	13.4	24.9	64.3	89.3	1.5	2.2	24.5
2752	Commercial printing, lithographic	-	33	6	0.5	4.9	0.3	0.6	2.8	9.7	6.4	16.0	(D)	(NA)	(NA)
278	Blankbooks and bookbinding	E1	9	6	0.6	5.7	0.6	1.0	4.1	12.4	3.5	15.9	(D)	0.5	3.5
2851	Paints and allied products	-	7	6	0.9	15.7	0.4	0.8	4.5	33.6	71.3	104.6	1.8	(NA)	(NA)
347	Metal services, n.e.c.	E9	9	3	0.5	4.4	0.4	0.8	3.1	8.5	3.5	11.9	0.4	(NA)	(NA)
3471	Plating and polishing	E9	9	3	0.5	4.4	0.4	0.8	3.1	8.5	3.5	11.9	0.4	(NA)	(NA)
--	Administrative and auxiliary	-	36	28	7.6	151.3	-	-	-	-	-	-	-	(NA)	(NA)
	Halifax County	-	**96**	**35**	**5.9**	**58.0**	**5.1**	**10.5**	**45.5**	**114.8**	**160.3**	**274.0**	**5.3**	**6.4**	**83.0**
23	Apparel and other textile products	-	7	5	1.0	6.0	0.9	1.7	5.4	9.6	4.6	14.0	(D)	1.3	11.1
24	Lumber and wood products	E1	52	7	0.6	5.3	0.6	1.1	3.7	9.3	11.5	21.3	0.8	0.8	8.4
	Harnett County	-	**45**	**17**	**5.4**	**47.1**	**4.7**	**9.4**	**36.6**	**102.3**	**140.9**	**237.8**	**6.3**	**4.5**	**50.2**
23	Apparel and other textile products	E1	7	6	1.7	10.2	1.4	2.5	7.8	19.5	17.4	36.3	(D)	1.3	6.8
	Haywood County	-	**33**	**13**	**5.3**	**70.7**	**4.3**	**8.7**	**54.6**	**211.6**	**269.6**	**474.2**	**(D)**	**5.7**	**111.1**
	Henderson County	-	**93**	**30**	**4.8**	**54.2**	**3.7**	**7.3**	**34.6**	**208.8**	**120.0**	**326.2**	**6.8**	**4.5**	**80.6**
22	Textile mill products	-	9	8	1.1	10.3	0.9	1.8	8.1	17.6	14.4	32.1	(D)	1.8	28.8
23	Apparel and other textile products	-	9	5	0.5	4.1	0.4	0.6	2.5	9.2	7.3	16.2	0.2	0.5	5.2
	Hertford County	-	**47**	**13**	**2.2**	**18.4**	**1.8**	**3.3**	**13.4**	**44.8**	**97.1**	**139.6**	**4.3**	**2.0**	**36.0**
24	Lumber and wood products	-	22	4	0.7	5.6	0.7	1.3	4.7	13.9	15.2	28.7	0.8	0.7	9.3
	Hoke County	-	**11**	**7**	**3.5**	**27.9**	**3.0**	**5.9**	**19.4**	**48.2**	**152.1**	**201.3**	**(D)**	**3.0**	**35.0**
	Iredell County	-	**184**	**94**	**15.7**	**131.5**	**13.4**	**25.8**	**97.1**	**284.0**	**343.1**	**627.0**	**56.0**	**15.9**	**183.6**
22	Textile mill products	-	29	22	5.7	48.8	5.0	9.9	39.0	99.0	147.0	244.4	(D)	6.7	65.2
228	Yarn and thread mills	-	5	5	1.6	13.2	1.5	3.0	11.6	22.1	40.5	62.0	(D)	1.7	15.1
2281	Yarn mills, except wool	-	5	5	1.6	13.2	1.5	3.0	11.6	22.1	40.5	62.0	(D)	(NA)	(NA)
23	Apparel and other textile products	E1	16	14	3.5	21.5	3.1	5.6	16.6	31.0	20.9	52.4	(D)	3.4	26.4
232	Men's and boys' furnishings	-	9	9	1.7	10.3	1.4	2.5	7.5	12.2	10.8	23.0	0.1	1.0	6.9
25	Furniture and fixtures	-	19	18	2.2	16.7	2.0	3.8	12.9	29.9	25.7	55.3	1.2	1.7	14.8
251	Household furniture	-	15	14	1.9	13.3	1.7	3.2	10.7	23.4	22.2	45.5	(D)	1.3	11.1
34	Fabricated metal products	-	12	4	0.8	10.1	0.7	1.4	6.6	32.3	14.0	47.1	0.4	1.1	26.2
35	Machinery, except electrical	-	27	6	0.8	9.1	0.7	1.3	5.7	25.5	11.7	37.2	(D)	0.7	12.2

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Jackson County	-	**17**	**6**	**1.5**	**10.1**	**1.3**	**2.4**	**7.9**	**19.3**	**17.2**	**36.4**	**0.8**	**1.6**	**13.3**
23	Apparel and other textile products	-	3	3	1.1	6.7	1.0	1.8	5.5	12.1	10.1	22.2	(D)	1.1	5.7
	Johnston County	-	**107**	**32**	**7.2**	**82.0**	**6.0**	**11.0**	**45.1**	**218.8**	**307.1**	**513.5**	**8.0**	**7.0**	**84.7**
22	Textile mill products	-	6	5	1.4	11.4	1.3	2.3	9.9	23.4	37.1	59.9	0.8	1.7	14.7
23	Apparel and other textile products	-	6	5	1.3	7.2	1.1	1.7	5.3	13.1	10.6	24.2	0.2	1.5	9.5
	Lee County	-	**100**	**37**	**7.0**	**65.7**	**5.7**	**10.9**	**41.7**	**173.3**	**179.4**	**355.4**	**13.0**	**6.4**	**88.9**
22	Textile mill products	-	9	8	1.2	9.6	1.0	2.1	7.4	27.8	51.4	79.2	0.8	1.2	11.9
23	Apparel and other textile products	E3	7	4	1.0	5.7	0.9	1.4	4.8	8.9	6.6	15.8	(D)	(NA)	(NA)
25	Furniture and fixtures	-	4	4	0.5	3.9	0.5	0.9	3.1	9.8	9.7	19.7	0.6	(NA)	(NA)
35	Machinery, except electrical	-	15	6	1.2	11.5	1.0	1.9	8.7	24.7	21.1	49.5	2.9	1.0	11.6
	Lenoir County	-	**80**	**39**	**9.0**	**99.2**	**8.9**	**13.4**	**63.5**	**242.1**	**338.5**	**578.6**	**15.1**	**7.3**	**139.1**
20	Food and kindred products	E7	11	5	0.6	5.9	0.4	0.7	3.4	10.4	48.1	58.5	(D)	0.6	8.8
22	Textile mill products	-	7	6	1.2	10.9	1.1	2.3	9.0	22.4	36.8	59.0	0.7	1.1	14.4
23	Apparel and other textile products	-	13	11	2.3	14.2	1.9	3.5	9.0	27.7	59.5	86.2	0.5	(NA)	(NA)
	Lincoln County	-	**102**	**42**	**6.8**	**56.6**	**8.0**	**11.5**	**45.2**	**108.9**	**146.0**	**251.6**	**13.9**	**6.7**	**77.1**
22	Textile mill products	-	36	23	4.2	34.8	3.9	7.7	29.7	61.9	89.0	149.5	9.4	4.9	57.4
228	Yarn and thread mills	-	15	12	1.4	10.8	1.3	2.5	9.0	21.2	33.4	53.9	(D)	1.8	18.0
25	Furniture and fixtures	-	7	5	1.1	8.9	0.9	1.5	6.0	20.9	23.4	43.0	1.8	1.0	10.8
	McDowell County	-	**66**	**31**	**10.8**	**88.6**	**9.6**	**17.4**	**71.5**	**178.5**	**180.8**	**353.4**	**21.8**	**7.3**	**96.5**
22	Textile mill products	-	17	12	3.9	33.9	3.5	6.9	27.6	45.8	85.5	132.3	(D)	4.1	52.6
225	Knitting mills	E1	9	4	0.5	2.7	0.4	0.8	2.3	3.7	9.2	12.9	0.1	0.5	3.9
226	Textile finishing, except wool	-	3	3	0.9	9.2	0.8	1.6	6.8	10.5	11.5	21.9	(D)	(NA)	(NA)
232	Men's and boys' furnishings	-	3	3	0.5	3.0	0.5	0.8	2.7	4.0	1.8	5.6	(D)	(NA)	(NA)
25	Furniture and fixtures	-	5	5	2.0	15.2	1.8	3.5	12.6	26.8	23.5	50.4	3.8	1.3	18.7
251	Household furniture	-	5	5	2.0	15.2	1.8	3.5	12.6	26.8	23.5	50.4	3.8	1.3	18.7
	Macon County	-	**33**	**7**	**0.9**	**7.2**	**0.8**	**1.4**	**5.2**	**28.6**	**13.8**	**41.1**	**2.2**	**0.9**	**7.8**
	Martin County	-	**37**	**12**	**2.1**	**17.0**	**1.8**	**3.6**	**13.5**	**27.1**	**76.5**	**104.9**	**1.8**	**1.9**	**22.1**
	Mecklenburg County	-	**852**	**309**	**40.0**	**471.4**	**25.1**	**48.9**	**237.4**	**1 018.4**	**1 233.8**	**2 227.4**	**52.7**	**38.3**	**624.9**
20	Food and kindred products	-	44	26	6.6	72.3	3.2	6.3	28.2	180.6	283.6	463.3	12.1	6.6	99.6
22	Textile mill products	-	47	22	2.6	22.6	2.3	4.3	18.3	47.6	62.6	110.9	4.2	3.5	41.0
225	Knitting mills	-	15	6	0.9	6.7	0.7	1.2	4.9	17.0	28.4	45.1	(D)	1.1	10.5
23	Apparel and other textile products	-	39	20	2.4	18.4	2.1	3.9	13.1	26.5	40.0	66.9	1.3	2.0	13.2
239	Miscellaneous fabricated textile products	E1	25	10	1.1	9.3	1.0	1.9	7.2	13.7	16.4	30.4	0.8	1.1	6.5
2391	Curtains and draperies	-	8	2	0.6	4.4	0.6	1.1	3.6	3.8	1.7	5.5	(D)	(NA)	(NA)
25	Furniture and fixtures	E1	24	9	0.8	7.4	0.7	1.3	5.8	12.3	12.2	24.3	(D)	(NA)	(NA)
264	Miscellaneous converted paper products	E1	13	6	0.7	9.2	0.5	0.9	4.8	16.5	22.8	39.1	1.2	0.5	6.2
27	Printing and publishing	-	154	31	3.3	37.4	2.1	4.1	22.2	80.9	53.4	132.8	3.0	3.3	53.1
275	Commercial printing	E1	97	18	1.4	15.4	1.1	2.1	10.9	32.8	26.9	58.8	1.6	1.3	18.7
2751	Commercial printing, letterpress	E1	53	6	0.5	4.9	0.3	0.6	3.3	12.7	12.7	24.9	0.4	(NA)	(NA)
2752	Commercial printing, lithographic	E1	36	7	0.7	7.8	0.5	1.0	5.5	15.9	12.6	28.1	1.1	(NA)	(NA)
28	Chemicals and allied products	-	61	23	2.7	34.7	1.6	3.3	16.2	136.7	179.1	307.3	8.2	2.4	71.5
289	Miscellaneous chemical products	-	24	6	1.1	13.3	0.7	1.4	5.7	39.4	46.0	84.2	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	29	16	3.0	34.0	2.2	4.4	22.6	108.2	155.2	262.0	(D)	(NA)	(NA)
33	Primary metal industries	-	12	8	0.7	7.8	0.6	1.0	5.8	16.0	26.6	42.9	0.7	1.2	22.7
34	Fabricated metal products	-	86	32	2.5	29.7	1.9	3.8	19.2	58.9	76.3	132.9	3.2	2.3	38.5
344	Fabricated structural metal products	-	43	18	1.0	12.6	0.8	1.6	7.7	26.9	49.9	75.6	1.0	1.1	16.3
349	Miscellaneous fabricated metal products	-	14	5	0.8	9.7	0.6	1.2	6.8	18.6	16.2	33.8	1.4	(NA)	(NA)
35	Machinery, except electrical	-	130	39	5.6	71.7	3.6	7.1	39.5	194.7	141.2	328.3	7.0	5.0	89.2
355	Special industry machinery	-	35	17	1.4	14.6	0.9	1.7	7.9	23.3	26 7	51.8	(D)	(NA)	(NA)
--	Administrative and auxiliary	-	50	25	3.4	59.6	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Mitchell County	-	**28**	**7**	**1.5**	**11.8**	**1.5**	**2.6**	**10.8**	**23.6**	**17.4**	**40.3**	**(D)**	**1.5**	**11.5**
	Montgomery County	-	**100**	**37**	**8.0**	**46.3**	**5.2**	**9.3**	**34.8**	**79.9**	**89.7**	**168.1**	**5.8**	**5.5**	**52.2**
22	Textile mill products	-	22	17	3.5	27.9	3.1	5.6	22.4	45.0	60.1	104.0	4.2	3.4	31.0
225	Knitting mills	-	18	13	2.4	18.8	2.2	3.7	14.6	31.5	38.2	68.6	3.9	1.8	17.4
23	Apparel and other textile products	E1	12	5	1.1	7.7	0.9	1.6	4.5	8.8	5.3	14.0	(Z)	(NA)	(NA)
25	Furniture and fixtures	-	6	6	0.6	4.1	0.4	0.8	3.2	10.8	8.5	19.3	0.2	(NA)	(NA)
251	Household furniture	-	6	6	0.6	4.1	0.4	0.8	3.2	10.8	8.5	19.3	0.2	(NA)	(NA)
	Moore County	-	**77**	**27**	**4.6**	**39.1**	**4.1**	**7.9**	**32.3**	**95.9**	**145.4**	**241.3**	**4.3**	**3.9**	**50.4**
22	Textile mill products	-	7	7	1.3	12.4	1.2	2.5	10.6	40.3	85.2	125.8	1.4	1.1	19.6
23	Apparel and other textile products	-	6	6	1.1	7.8	1.0	1.9	7.1	10.9	5.8	16.7	0.2	(NA)	(NA)
	Nash County	-	**114**	**83**	**12.4**	**104.2**	**10.7**	**20.8**	**81.4**	**248.7**	**379.2**	**823.9**	**24.7**	**9.4**	**107.6**
22	Textile mill products	-	13	11	3.6	30.6	3.2	8.4	24.9	64.0	148.5	210.9	(D)	3.2	41.7
2211	Weaving mills, cotton	-	4	4	0.7	6.3	0.6	1.2	5.1	18.0	19.7	36.9	(D)	(NA)	(NA)
23	Apparel and other textile products	-	22	18	2.5	15.3	2.4	4.2	13.4	24.8	37.1	62.3	(D)	2.3	18.4
236	Children's outerwear	-	9	9	0.9	5.0	0.8	1.4	4.5	6.3	0.4	6.7	0.1	0.9	3.4
24	Lumber and wood products	-	23	8	0.7	6.4	0.6	1.3	4.7	8.7	20.7	29.8	(D)	(NA)	(NA)
25	Furniture and fixtures	-	5	5	0.6	4.7	0.5	0.8	3.4	11.0	12.1	22.9	(D)	(NA)	(NA)
	New Hanover County	-	**135**	**58**	**12.2**	**158.3**	**6.7**	**17.2**	**96.2**	**725.3**	**716.1**	**1 454.8**	**26.5**	**11.7**	**473.8**
20	Food and kindred products	-	13	6	0.5	4.9	0.2	0.4	2.3	13.4	13.1	26.7	(D)	0.7	12.0
28	Chemicals and allied products	-	18	12	3.6	59.5	2.5	5.1	36.9	246.4	403.0	658.2	16.7	(NA)	(NA)
	Northampton County	-	**40**	**18**	**1.6**	**12.5**	**1.6**	**2.9**	**10.0**	**27.8**	**37.5**	**68.1**	**3.7**	**1.5**	**19.8**
24	Lumber and wood products	-	24	7	0.7	4.8	0.6	1.1	3.9	10.6	13.2	24.6	3.2	0.6	7.4
	Onslow County	-	**40**	**12**	**1.9**	**14.4**	**1.7**	**3.1**	**11.1**	**31.8**	**64.5**	**95.2**	**6.6**	**1.7**	**14.3**
23	Apparel and other textile products	-	6	5	0.9	4.1	0.8	1.2	3.3	6.1	3.8	9.8	(D)	1.2	6.3
	Orange County	-	**58**	**13**	**1.9**	**17.7**	**1.6**	**3.2**	**13.5**	**29.3**	**45.0**	**73.5**	**1.5**	**2.1**	**16.8**
	Pasquotank County	-	**36**	**12**	**1.5**	**13.3**	**1.2**	**2.2**	**9.1**	**28.0**	**22.7**	**51.7**	**1.5**	**1.6**	**17.6**
	Pender County	-	**22**	**8**	**0.5**	**3.9**	**0.4**	**0.7**	**2.9**	**4.6**	**13.5**	**17.9**	**0.3**	**0.3**	**2.9**
	Person County	-	**34**	**13**	**4.0**	**37.1**	**3.4**	**7.1**	**29.0**	**80.4**	**105.4**	**184.3**	**2.6**	**4.3**	**53.4**
	Pitt County	-	**92**	**38**	**7.0**	**89.3**	**5.3**	**11.0**	**43.2**	**252.9**	**286.6**	**535.5**	**11.1**	**8.0**	**132.6**
20	Food and kindred products	-	8	5	0.6	7.5	0.4	0.9	4.6	1.8	33.2	36.1	(D)	(NA)	(NA)
22	Textile mill products	-	8	6	1.5	12.8	1.3	2.8	10.4	33.1	57.3	89.7	(D)	1.3	21.4
23	Apparel and other textile products	-	9	7	1.2	6.7	0.9	1.8	4.4	9.2	0.7	8.9	0.3	1.5	7.0
233	Women's and misses' outerwear	-	6	5	0.8	5.1	0.6	1.2	2.9	7.1	0.5	6.5	(D)	0.5	2.4
35	Machinery, except electrical	-	12	4	0.8	9.0	0.6	1.2	6.5	22.3	28.8	50.6	1.8	(NA)	(NA)
	Polk County	-	**28**	**7**	**0.8**	**6.4**	**0.6**	**1.2**	**4.6**	**14.9**	**49.4**	**64.3**	**1.8**	**1.0**	**8.1**
22	Textile mill products	-	10	5	0.7	5.6	0.6	1.0	4.0	12.7	46.8	59.5	(D)	0.9	7.6
	Randolph County	-	**274**	**111**	**20.9**	**184.8**	**17.7**	**33.2**	**135.4**	**392.7**	**480.2**	**884.4**	**29.6**	**16.5**	**239.7**
22	Textile mill products	-	57	43	9.2	81.9	7.9	15.5	60.7	130.8	203.8	330.5	13.2	9.9	101.5
225	Knitting mills	-	46	33	5.0	38.4	4.5	8.2	31.1	64.5	92.9	157.0	(D)	5.3	45.2
2257	Circular knit fabric mills	-	6	5	0.8	7.0	0.7	1.5	5.8	13.3	19.9	33.3	1.2	(NA)	(NA)
233	Women's and misses' outerwear	E1	8	4	0.8	4.2	0.7	1.0	3.5	6.3	2.3	8.6	0.1	0.8	5.2
25	Furniture and fixtures	-	38	19	3.7	30.3	3.3	6.0	23.9	63.6	66.1	128.0	3.2	2.2	24.9
251	Household furniture	-	34	15	3.2	25.9	2.9	5.0	20.7	55.1	59.2	112.7	2.8	2.0	22.3
2512	Upholstered household furniture	-	17	7	1.7	14.9	1.6	2.6	12.1	28.8	34.3	62.9	(D)	(NA)	(NA)
	Richmond County	-	**64**	**34**	**8.3**	**54.6**	**5.8**	**11.5**	**45.1**	**147.2**	**153.6**	**296.2**	**6.4**	**5.1**	**44.5**
22	Textile mill products	-	11	10	3.6	32.2	3.3	7.1	27.5	82.8	76.9	158.8	3.2	3.4	29.5
2221	Weaving mills, manmade fiber and silk	-	3	3	2.1	20.9	2.0	4.2	17.7	41.5	38.3	80.0	(D)	(NA)	(NA)
23	Apparel and other textile products	E1	6	4	0.6	3.1	0.5	0.9	2.9	5.3	3.0	8.2	0.1	0.5	3.8

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Robeson County	-	126	58	11.0	85.4	9.5	18.3	68.9	207.8	246.7	453.7	9.4	10.5	117.4
20	Food and kindred products	-	10	4	0.7	5.6	0.5	1.1	3.5	10.9	33.4	44.2	1.1	0.6	8.9
22	Textile mill products	-	21	18	4.3	36.1	3.9	7.7	30.4	112.5	123.9	236.9	4.7	4.2	60.0
225	Knitting mills	-	12	12	2.5	18.6	2.3	4.2	16.0	75.3	47.5	122.7	2.1	2.3	26.5
23	Apparel and other textile products	E1	20	16	2.5	15.0	2.3	4.4	13.1	24.2	15.8	40.3	0.5	2.3	18.2
232	Men's and boys' furnishings	E1	7	7	1.2	7.1	1.1	2.1	6.4	10.5	4.8	15.1	0.1	(NA)	(NA)
2321	Men's and boys' shirts and nightwear	E2	4	4	0.7	4.0	0.6	1.2	3.6	6.6	3.8	10.2	(D)	(NA)	(NA)
	Rockingham County	-	103	54	16.7	162.4	13.7	27.0	116.7	438.3	805.3	1 231.7	115.4	17.2	306.2
22	Textile mill products	-	25	22	9.4	86.1	8.3	17.0	70.8	159.0	343.5	498.8	(D)	9.1	88.2
228	Yarn and thread mills	-	9	9	4.5	40.7	3.9	8.0	32.0	72.7	202.7	274.0	(D)	4.5	40.3
23	Apparel and other textile products	-	10	9	2.6	21.7	2.2	4.2	15.3	42.8	113.4	149.6	0.8	3.7	57.7
233	Women's and misses' outerwear	-	3	3	0.5	2.6	0.4	0.8	2.2	3.6	1.2	4.8	(D)	(NA)	(NA)
2331	Women's and misses' blouses and waists	-	3	3	0.5	2.6	0.4	0.8	2.2	3.6	1.2	4.8	(D)	(NA)	(NA)
	Rowan County	-	162	67	14.1	130.3	11.7	21.6	96.6	400.1	508.1	902.6	23.1	13.5	233.1
20	Food and kindred products	-	17	7	0.7	7.1	0.4	0.8	3.2	23.2	18.7	41.9	0.6	0.9	13.1
22	Textile mill products	-	18	12	5.4	42.6	5.0	9.5	36.8	87.7	118.1	202.3	10.7	5.3	49.2
228	Yarn and thread mills	-	7	6	3.0	22.3	2.8	5.2	19.3	41.3	67.3	107.6	(D)	3.1	26.3
23	Apparel and other textile products	-	14	9	1.5	9.2	1.2	2.0	6.4	15.7	18.7	36.1	(D)	1.4	10.6
25	Furniture and fixtures	E1	13	6	0.6	4.9	0.5	0.8	3.7	10.6	10.1	20.8	0.3	0.7	9.5
32	Stone, clay, and glass products	-	17	8	0.5	4.7	0.4	0.7	3.2	11.4	14.6	25.8	2.2	(NA)	(NA)
	Rutherford County	-	85	40	10.3	92.9	9.0	18.1	73.9	188.7	201.9	388.6	16.6	9.7	146.4
22	Textile mill products	-	25	16	6.7	62.4	5.9	12.0	50.5	116.8	130.9	246.7	10.0	6.3	100.0
2221	Weaving mills, manmade fiber and silk	-	6	6	4.3	40.2	3.8	7.4	32.1	69.4	59.9	130.1	5.2	(NA)	(NA)
23	Apparel and other textile products	E1	10	8	1.3	9.6	1.1	2.0	6.7	16.6	12.3	28.6	0.2	1.4	13.5
233	Women's and misses' outerwear	-	6	4	0.8	6.6	0.6	1.2	4.3	11.6	6.9	18.2	0.1	0.8	7.7
25	Furniture and fixtures	-	3	3	1.5	13.4	1.3	2.9	11.2	35.8	34.2	70.6	(D)	1.3	24.2
30	Rubber and miscellaneous plastics products	-	7	7	0.5	4.6	0.4	0.9	3.8	12.1	11.5	23.0	1.6	(NA)	(NA)
	Sampson County	-	73	29	4.5	36.8	3.9	7.5	28.1	100.2	181.9	281.1	(D)	3.9	49.0
23	Apparel and other textile products	E2	10	7	1.2	7.3	1.1	2.0	6.3	7.9	1.9	10.0	0.1	1.4	10.7
	Scotland County	-	42	24	6.4	66.4	5.6	12.3	56.0	148.5	305.2	442.4	8.7	6.2	70.0
22	Textile mill products	-	8	8	2.5	25.4	2.2	5.1	21.5	55.1	139.8	191.0	(D)	2.8	29.0
	Stanly County	-	99	43	9.4	82.4	8.3	16.2	65.7	336.7	269.2	599.3	11.7	10.6	137.3
22	Textile mill products	-	22	18	5.2	43.6	4.7	9.5	35.7	160.8	121.0	281.9	6.7	6.2	82.5
228	Yarn and thread mills	-	6	6	3.2	24.8	3.1	6.0	22.0	48.4	62.9	111.7	(D)	3.6	33.8
23	Apparel and other textile products	-	14	8	1.4	8.3	1.2	2.3	7.3	12.5	12.8	25.4	0.1	1.7	10.6
239	Miscellaneous fabricated textile products	-	4	3	0.7	4.6	0.6	1.1	3.9	4.8	5.2	10.0	(D)	(NA)	(NA)
	Surry County	-	118	50	13.6	102.6	12.5	23.4	84.5	217.8	273.8	482.6	9.7	13.7	158.0
22	Textile mill products	-	31	20	8.5	64.4	8.0	14.8	56.3	132.9	162.9	288.4	7.1	8.9	96.7
2252	Hosiery, n.e.c.	-	14	10	2.3	15.7	2.2	4.2	13.5	25.8	26.9	51.5	1.4	(NA)	(NA)
25	Furniture and fixtures	-	4	3	1.1	7.3	1.1	2.2	6.9	12.2	15.6	27.3	(D)	1.0	7.4
251	Household furniture	-	4	3	1.1	7.3	1.1	2.2	6.9	12.2	15.6	27.3	(D)	1.0	7.4
	Swain County	-	14	7	1.1	7.3	1.0	1.8	5.2	14.5	18.0	33.0	0.5	1.0	9.4
23	Apparel and other textile products	-	3	3	0.5	3.5	0.5	0.9	2.6	6.9	10.8	17.4	0.1	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Union County	-	126	57	8.8	74.1	7.2	13.9	51.0	144.4	293.2	442.5	10.5	7.8	99.8
20	Food and kindred products	-	11	3	1.4	9.7	1.2	2.1	7.9	10.7	95.5	110.0	(D)	0.9	10.9
22	Textile mill products	-	16	11	1.9	14.7	1.7	3.4	11.9	23.0	52.5	75.7	1.1	2.4	28.9
225	Knitting mills	E1	7	4	0.8	6.7	0.7	1.4	5.1	11.5	26.6	37.9	(D)	0.9	14.1
23	Apparel and other textile products	-	12	10	1.8	10.5	1.7	3.1	8.7	18.7	22.9	41.6	0.5	1.4	11.8
239	Miscellaneous fabricated textile products	-	6	5	0.9	5.8	0.8	1.5	4.2	11.1	20.2	31.3	(D)	(NA)	(NA)
24	Lumber and wood products	E6	25	8	0.7	5.8	0.6	1.1	4.7	19.4	21.0	40.1	0.5	(NA)	(NA)
34	Fabricated metal products	-	7	3	0.5	6.2	0.4	0.8	3.4	16.8	9.5	26.1	(D)	0.7	11.6
	Vance County	-	52	33	6.8	57.0	5.9	11.5	45.5	107.9	148.0	258.1	8.4	6.5	75.3
22	Textile mill products	-	14	13	3.8	29.0	3.4	6.9	23.9	50.6	76.7	128.0	4.8	3.9	38.6
23	Apparel and other textile products	-	4	4	0.5	2.9	0.4	0.6	2.5	5.4	9.3	14.9	(D)	0.5	2.6
	Wake County	-	346	110	18.8	207.8	12.7	24.9	112.7	533.7	466.2	994.1	30.2	15.5	249.3
20	Food and kindred products	-	19	12	2.0	19.1	1.3	2.5	9.5	50.0	148.3	197.9	6.0	2.4	37.5
22	Textile mill products	-	10	7	1.3	12.3	1.1	2.3	9.6	24.5	34.8	65.0	3.2	(NA)	(NA)
27	Printing and publishing	-	77	11	1.3	13.8	0.7	1.2	6.2	32.4	20.1	52.4	1.6	1.0	16.8
275	Commercial printing	E1	45	7	0.5	5.1	0.4	0.7	3.4	10.5	8.6	19.0	0.9	(NA)	(NA)
28	Chemicals and allied products	-	8	5	0.8	11.4	0.4	1.1	5.4	50.6	25.0	75.1	(D)	(NA)	(NA)
34	Fabricated metal products	-	21	12	2.0	25.0	1.4	2.9	13.5	71.8	50.2	120.4	3.6	(NA)	(NA)
--	Administrative and auxiliary	-	10	5	0.5	9.4	-	-	-	-	-	-	-	(NA)	(NA)
	Warren County	-	39	7	0.9	6.6	0.8	1.7	5.5	9.1	20.8	29.6	0.6	1.0	7.0
	Watauga County	-	45	8	2.1	16.2	1.8	3.4	12.5	32.6	19.8	52.6	1.1	2.0	22.3
	Wayne County	-	96	41	6.8	58.3	5.3	10.9	38.7	126.6	163.4	288.6	(D)	5.5	73.8
20	Food and kindred products	-	13	7	1.0	10.5	0.6	1.2	4.3	27.9	40.8	68.6	1.4	0.5	12.0
22	Textile mill products	-	4	4	1.1	9.8	1.0	2.0	7.9	21.9	33.8	55.0	(D)	0.6	10.2
23	Apparel and other textile products	-	8	7	1.5	8.9	1.3	2.8	7.3	20.1	24.6	44.6	0.3	1.5	11.3
34	Fabricated metal products	-	8	4	0.5	3.0	0.4	0.8	2.1	5.0	4.7	9.5	(D)	(NA)	(NA)
	Wilkes County	-	119	33	8.2	65.1	7.1	13.8	49.5	134.5	279.9	417.8	5.9	7.4	90.0
22	Textile mill products	-	11	6	1.4	10.3	1.3	2.5	9.0	18.5	56.2	78.7	(D)	1.3	15.2
23	Apparel and other textile products	-	7	5	0.8	4.5	0.7	1.3	3.7	4.2	8.2	12.3	0.1	1.2	11.2
	Wilson County	-	76	39	7.7	77.4	6.1	11.7	54.9	211.4	350.5	555.2	13.3	6.4	92.6
20	Food and kindred products	-	11	7	0.6	7.0	0.3	0.6	3.9	14.6	80.8	97.0	1.1	0.9	19.2
	Yancey County	-	26	8	1.3	9.6	1.2	2.0	8.1	19.9	33.0	52.5	0.4	1.0	9.6

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Ahoskie	-	20	6	1.0	8.7	0.8	1.5	6.8	21.0	52.4	70.1	1.8	1.2	24.7
	Asheboro	-	109	47	9.7	91.9	7.9	14.7	62.3	213.8	240.9	451.0	14.1	7.9	123.2
22	Textile mill products	-	31	24	4.6	42.3	3.6	6.9	27.1	62.5	116.5	177.8	(D)	4.4	42.1
2251	Women's hosiery, except socks	-	13	11	1.7	12.5	1.6	2.8	10.0	18.1	19.4	37.3	0.8	(NA)	(NA)
	Asheville	-	132	53	5.0	44.1	3.4	6.4	25.5	95.7	119.5	210.8	4.8	6.1	81.0
	Belmont	-	34	21	3.6	29.6	3.3	6.6	25.1	51.2	91.9	143.8	2.8	3.2	26.8
22	Textile mill products	-	21	18	3.4	27.0	3.2	6.4	24.2	48.1	86.5	135.6	2.4	3.2	25.4
228	Yarn and thread mills	-	12	12	2.2	17.9	2.1	4.2	16.1	32.1	61.3	94.2	2.0	(NA)	(NA)
	Bessemer City	-	26	8	1.8	18.3	1.5	3.2	14.3	56.3	42.3	98.7	3.3	1.9	26.3
	Black Mountain	-	11	5	0.9	8.0	0.7	1.4	5.5	14.0	9.9	23.1	0.5	(D)	(D)
	Boone	-	32	8	2.0	15.9	1.7	3.3	12.2	31.8	18.6	50.7	1.1	2.0	21.5
	Burlington	-	141	66	9.5	92.4	7.4	14.4	59.7	194.0	348.6	541.5	10.0	14.2	180.2
22	Textile mill products	-	63	40	7.0	59.5	6.1	11.8	46.2	136.3	309.2	446.4	8.3	10.2	124.6
225	Knitting mills	-	48	30	4.8	38.9	4.2	8.0	30.0	91.2	142.3	234.7	(D)	(NA)	(NA)
2252	Hosiery, n.e.c.	-	23	15	2.3	17.2	2.1	4.0	14.7	43.1	45.7	89.7	0.9	(NA)	(NA)
	Charlotte	-	636	227	27.8	327.5	16.0	31.1	146.7	605.8	767.2	1 364.2	34.8	26.0	441.7
22	Textile mill products	-	30	14	1.4	12.0	1.2	2.2	9.5	27.8	35.0	63.2	3.7	2.4	32.5
225	Knitting mills	-	9	5	0.6	4.5	0.5	0.9	3.3	11.5	16.6	28.0	(D)	(NA)	(NA)
23	Apparel and other textile products	-	27	15	1.5	12.3	1.3	2.5	8.4	18.8	33.2	52.6	1.1	(NA)	(NA)
239	Miscellaneous fabricated textile products	E2	17	8	0.6	5.7	0.6	1.1	4.6	9.2	13.4	23.0	(D)	(NA)	(NA)
28	Chemicals and allied products	-	48	16	1.6	19.9	0.9	1.8	8.2	73.3	96.4	163.4	2.4	1.5	46.5
3079	Miscellaneous plastics products	-	12	5	0.5	5.7	0.4	0.8	4.5	13.9	17.4	30.8	1.7	(NA)	(NA)
34	Fabricated metal products	-	55	21	1.4	17.0	1.1	2.1	11.2	29.6	37.3	66.5	2.2	1.5	21.8
344	Fabricated structural metal products	-	28	13	0.6	7.2	0.5	0.9	4.7	11.8	20.1	31.9	0.7	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	10	4	0.5	6.9	0.4	0.8	4.8	14.1	12.1	25.7	(D)	(NA)	(NA)
355	Special industry machinery	-	28	14	1.2	13.1	0.8	1.5	7.1	20.3	21.8	43.9	(D)	(NA)	(NA)
3552	Textile machinery	-	20	10	1.0	10.5	0.6	1.2	5.6	14.6	16.9	33.6	0.7	(NA)	(NA)
38	Instruments and related products	-	12	4	0.6	11.0	0.4	0.8	6.2	22.1	15.1	35.6	(D)	(NA)	(NA)
--	Administrative and auxiliary	-	42	21	3.2	56.2	-	-	-	-	-	-	-	(NA)	(NA)
	Cherryville	-	20	11	1.5	10.0	1.3	2.4	8.4	16.1	24.1	41.5	0.7	2.2	25.2
22	Textile mill products	-	8	6	1.1	7.9	1.0	1.9	6.9	12.8	21.3	35.5	0.7	1.9	23.5
	Clinton	-	23	12	1.8	17.7	1.4	2.7	12.6	32.4	112.7	144.7	(D)	1.8	21.6
	Conover	-	62	26	4.1	34.6	3.4	6.4	25.9	69.0	95.1	163.5	2.3	3.2	36.6
25	Furniture and fixtures	-	19	12	2.4	20.0	2.1	3.9	15.9	39.5	43.9	83.5	1.0	1.5	18.7
2512	Upholstered household furniture	-	15	11	1.9	16.5	1.7	3.0	12.9	30.6	36.0	66.4	0.6	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	7	5	0.7	6.2	0.6	1.1	4.3	15.3	21.4	36.1	0.8	(NA)	(NA)
	Dallas	-	25	7	0.6	5.6	0.6	1.1	4.7	9.9	8.7	17.8	0.3	(D)	(D)
22	Textile mill products	-	3	3	0.5	3.6	0.4	0.8	3.3	6.6	6.7	12.6	0.2	(NA)	(NA)
	Dunn	-	24	9	1.8	14.4	1.3	2.8	8.7	26.4	49.0	75.0	(D)	(D)	(D)
	Elizabeth City	-	36	12	1.5	13.3	1.2	2.2	9.1	28.0	22.7	51.7	1.5	(D)	(D)
24	Lumber and wood products	-	13	3	0.8	8.3	0.7	1.4	6.5	17.2	13.0	31.1	0.5	(NA)	(NA)
	Fairmont	-	18	5	1.0	6.1	1.0	2.0	5.6	10.1	6.3	16.1	0.2	(D)	(D)
	Farmville	-	12	5	1.3	11.2	1.0	2.2	8.0	26.2	49.4	74.1	(D)	1.4	15.3
	Forest City	-	26	11	1.8	16.9	1.6	3.2	13.2	41.7	47.1	87.4	4.7	1.8	23.7
	Fuquay-Varina	-	26	6	0.9	8.0	0.8	1.8	5.7	16.4	15.4	31.7	0.7	0.5	7.5
	Gastonia	-	236	85	14.6	142.7	11.4	22.3	99.1	288.0	461.3	753.9	19.6	17.1	231.4
22	Textile mill products	-	38	24	7.3	63.3	6.4	12.2	50.6	129.2	301.8	432.0	6.5	8.6	103.0
2257	Circular knit fabric mills	-	10	7	1.0	9.8	0.9	1.7	7.2	15.0	74.3	88.8	(D)	(NA)	(NA)
228	Yarn and thread mills	-	14	11	4.6	37.4	4.0	7.9	29.7	77.7	135.4	212.7	3.6	(NA)	(NA)
27	Printing and publishing	-	23	4	0.5	4.5	0.2	0.3	1.4	11.9	4.0	15.9	(D)	(NA)	(NA)
35	Machinery, except electrical	E1	87	22	1.5	17.5	1.0	2.2	10.4	33.0	22.6	55.1	2.0	2.6	54.5
3552	Textile machinery	-	48	14	1.1	11.7	0.7	1.5	6.6	23.1	17.4	40.0	1.1	(NA)	(NA)
--	Administrative and auxiliary	-	4	4	0.5	6.8	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Goldsboro	–	**53**	**18**	**2.4**	**21.5**	**1.6**	**3.2**	**12.1**	**46.0**	**59.5**	**105.5**	**(D)**	**2.7**	**42.1**
	Graham	–	**40**	**17**	**2.5**	**19.9**	**2.3**	**4.3**	**16.1**	**33.0**	**49.3**	**82.2**	**2.2**	**2.7**	**25.8**
22	Textile mill products	–	21	12	2.3	17.6	2.1	3.9	14.8	29.2	43.9	73.0	1.7	2.6	24.9
225	Knitting mills	E1	14	8	1.0	6.8	0.9	1.6	5.4	11.0	8.8	19.4	(D)	(NA)	(NA)
	Greensboro	–	**341**	**147**	**23.7**	**293.5**	**16.5**	**33.0**	**160.5**	**657.4**	**762.4**	**1 412.2**	**40.2**	**27.3**	**474.5**
20	Food and kindred products	–	23	12	1.4	15.1	0.8	1.4	7.6	30.9	61.6	92.5	2.5	2.0	29.9
22	Textile mill products	–	31	19	7.5	77.1	6.3	13.8	60.3	181.2	297.3	471.0	15.2	8.6	100.0
226	Textile finishing, except wool	–	6	5	0.7	7.2	0.4	1.0	4.5	9.4	27.1	37.1	(D)	(NA)	(NA)
275	Commercial printing	–	43	8	0.5	6.6	0.4	0.7	3.9	12.7	7.9	20.5	0.9	(NA)	(NA)
28	Chemicals and allied products	–	17	7	0.6	8.2	0.4	0.7	3.9	40.2	60.3	99.6	3.2	0.6	19.6
--	Administrative and auxiliary	–	21	16	3.0	64.4	–	–	–	–	–	–	–	(NA)	(NA)
	Greenville	–	**53**	**20**	**4.0**	**43.3**	**2.9**	**6.1**	**24.3**	**211.6**	**205.5**	**413.2**	**(D)**	**2.5**	**95.1**
	Hamlet	–	**18**	**8**	**0.6**	**4.4**	**0.5**	**1.0**	**3.2**	**10.0**	**10.8**	**20.7**	**0.5**	**(NA)**	**(NA)**
	Henderson	–	**44**	**27**	**5.0**	**37.7**	**4.4**	**8.3**	**30.5**	**69.7**	**100.7**	**171.9**	**(D)**	**4.6**	**52.8**
	Hendersonville	–	**39**	**9**	**0.7**	**7.1**	**0.5**	**0.9**	**3.6**	**16.7**	**14.4**	**30.9**	**0.5**	**1.0**	**9.6**
	Hickory	–	**251**	**123**	**15.0**	**133.7**	**12.6**	**23.8**	**97.1**	**268.2**	**335.2**	**599.5**	**13.2**	**17.0**	**196.8**
22	Textile mill products	–	87	43	4.5	35.3	4.0	7.6	28.4	91.1	127.3	217.5	2.5	6.5	74.4
225	Knitting mills	E1	63	29	2.8	19.0	2.4	4.3	15.1	29.6	45.6	74.8	0.8	(NA)	(NA)
2252	Hosiery, n.e.c.	E1	41	19	2.0	13.5	1.8	3.2	10.8	22.8	37.5	59.3	0.5	(NA)	(NA)
24	Lumber and wood products	E1	25	11	0.6	3.8	0.5	1.0	3.2	6.7	4.9	11.4	0.6	(NA)	(NA)
242	Sawmills and planing mills	E1	18	9	0.5	3.3	0.5	0.9	2.8	5.8	4.4	10.0	0.6	(NA)	(NA)
25	Furniture and fixtures	–	60	43	7.4	66.8	6.3	11.7	50.5	109.0	118.2	225.6	6.1	(NA)	(NA)
2512	Upholstered household furniture	–	43	33	5.0	45.7	4.2	7.6	35.1	74.6	86.8	160.0	3.6	(NA)	(NA)
26	Paper and allied products	–	11	6	0.7	6.8	0.6	1.1	4.8	19.2	23.2	41.8	1.9	0.5	9.0
264	Miscellaneous converted paper products	–	6	4	0.5	4.6	0.4	0.8	3.2	14.7	15.2	29.2	(D)	(NA)	(NA)
	High Point	–	**359**	**177**	**22.4**	**200.4**	**18.0**	**33.9**	**134.8**	**390.0**	**448.1**	**837.9**	**17.9**	**23.6**	**295.6**
22	Textile mill products	–	34	24	3.9	30.0	3.5	6.7	24.3	52.6	69.7	123.2	4.7	5.5	54.1
225	Knitting mills	–	19	15	2.6	17.7	2.4	4.4	14.4	30.4	29.8	60.9	(D)	(NA)	(NA)
2252	Hosiery, n.e.c.	–	11	10	1.8	13.1	1.7	3.2	10.5	23.1	23.8	47.3	0.5	(NA)	(NA)
25	Furniture and fixtures	–	102	60	8.4	70.8	7.2	13.3	52.3	143.7	134.8	278.0	4.6	8.3	102.4
251	Household furniture	–	84	50	5.6	46.0	4.8	8.7	34.3	94.6	92.0	186.4	2.6	(NA)	(NA)
2512	Upholstered household furniture	–	61	36	4.5	38.0	3.9	7.1	28.6	76.4	68.6	145.2	2.2	(NA)	(NA)
2521	Wood office furniture	–	9	7	2.3	21.0	2.0	3.8	15.3	41.7	33.5	75.1	1.7	(NA)	(NA)
27	Printing and publishing	E1	42	8	0.6	6.1	0.5	0.8	3.7	11.8	7.0	18.8	0.4	(NA)	(NA)
28	Chemicals and allied products	–	9	7	0.9	15.5	0.3	0.7	3.8	29.4	52.8	82.1	2.3	(NA)	(NA)
2851	Paints and allied products	–	4	4	0.7	13.0	0.2	0.5	2.8	23.2	41.4	64.6	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	–	18	11	0.9	7.7	0.8	1.4	5.3	14.8	22.1	37.0	1.1	0.6	7.7
3079	Miscellaneous plastics products	–	16	11	0.9	7.6	0.8	1.4	5.3	14.6	21.9	36.5	1.1	(NA)	(NA)
	Hudson	–	**19**	**7**	**1.1**	**9.5**	**1.0**	**2.2**	**7.9**	**18.5**	**21.6**	**39.8**	**1.7**	**(NA)**	**(NA)**
	Kernersville	–	**37**	**12**	**2.3**	**26.3**	**1.9**	**3.6**	**19.9**	**50.6**	**71.7**	**119.8**	**2.2**	**2.2**	**27.9**
	Kings Mountain	–	**49**	**26**	**3.8**	**29.9**	**3.5**	**6.8**	**23.5**	**50.0**	**107.4**	**157.5**	**7.1**	**4.1**	**44.4**
22	Textile mill products	–	26	18	3.2	24.7	3.0	5.9	20.0	38.7	93.3	132.7	6.8	3.9	41.6
225	Knitting mills	E1	15	10	1.4	10.2	1.4	2.4	8.0	10.1	38.5	49.3	(D)	(NA)	(NA)
228	Yarn and thread mills	–	6	5	1.0	8.1	1.0	1.9	7.3	16.7	24.2	41.0	3.3	(NA)	(NA)
	Laurinburg	–	**28**	**11**	**3.0**	**31.3**	**2.6**	**5.6**	**26.3**	**64.3**	**62.0**	**126.7**	**2.2**	**1.4**	**15.2**
	Lenoir	–	**102**	**46**	**12.2**	**103.9**	**10.7**	**21.9**	**81.8**	**204.6**	**195.6**	**399.7**	**9.8**	**12.4**	**148.9**
22	Textile mill products	–	4	4	0.5	3.3	0.4	0.8	2.8	6.8	6.0	12.9	(D)	0.5	6.9
24	Lumber and wood products	–	36	10	0.7	6.3	0.6	1.3	4.9	10.7	12.0	22.5	1.6	0.9	8.6
25	Furniture and fixtures	–	27	17	9.6	78.5	8.8	18.1	67.0	164.9	145.9	310.1	6.6	9.2	119.3
251	Household furniture	–	27	17	9.6	78.5	8.8	18.1	67.0	164.9	145.9	310.1	6.6	(NA)	(NA)
	Lexington	–	**93**	**35**	**9.1**	**83.3**	**7.9**	**15.4**	**63.2**	**167.2**	**175.1**	**341.5**	**7.7**	**8.1**	**104.4**
22	Textile mill products	–	5	3	1.6	13.9	1.5	3.0	12.8	28.1	37.3	65.0	(D)	1.6	14.9
25	Furniture and fixtures	–	14	11	4.5	41.9	3.8	7.5	30.1	80.5	63.5	144.3	2.9	4.2	48.7
251	Household furniture	–	14	11	4.5	41.9	3.8	7.5	30.1	80.5	63.5	144.3	2.9	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Lincolnton	-	**63**	**28**	**2.7**	**22.1**	**2.4**	**4.5**	**16.5**	**46.8**	**66.0**	**110.8**	**5.2**	**4.2**	**43.9**
22	Textile mill products	-	24	16	1.6	12.7	1.5	2.8	10.4	25.3	38.7	63.2	(D)	2.7	28.7
2281	Yarn mills, except wool	-	11	9	1.0	7.9	0.9	1.8	6.7	15.3	25.2	40.3	(D)	(NA)	(NA)
	Longview	-	**32**	**23**	**2.6**	**20.7**	**2.1**	**4.1**	**15.2**	**41.0**	**41.2**	**81.5**	**2.0**	**1.0**	**12.0**
22	Textile mill products	-	13	11	1.5	11.5	1.4	2.6	9.8	24.2	21.1	45.0	0.8	0.6	7.2
225	Knitting mills	-	9	7	1.1	7.5	1.0	1.8	6.7	16.2	15.9	31.8	0.7	(NA)	(NA)
25	Furniture and fixtures	-	5	4	0.5	3.7	0.4	0.8	2.7	6.9	5.1	11.9	(D)	(NA)	(NA)
	Louisburg	-	**37**	**8**	**1.1**	**7.6**	**1.1**	**1.8**	**6.7**	**15.6**	**20.5**	**33.6**	**(D)**	**0.9**	**7.0**
	Lowell	-	**10**	**4**	**0.7**	**6.3**	**0.6**	**1.2**	**4.6**	**9.5**	**23.5**	**31.8**	**(D)**	**0.7**	**4.0**
	Lumberton	-	**51**	**27**	**6.2**	**49.4**	**5.2**	**9.7**	**39.2**	**139.3**	**135.5**	**273.8**	**6.5**	**6.2**	**63.1**
22	Textile mill products	-	12	9	2.5	20.1	2.2	4.1	17.3	81.5	69.0	150.7	(D)	2.5	33.6
23	Apparel and other textile products	E1	12	9	1.2	7.7	1.1	2.0	6.3	14.2	12.5	27.1	(D)	1.1	7.8
	Marion	-	**46**	**19**	**7.3**	**58.8**	**6.6**	**11.5**	**48.5**	**136.8**	**106.2**	**238.2**	**19.1**	**5.3**	**77.3**
23	Apparel and other textile products	-	3	3	0.5	3.0	0.5	0.8	2.7	4.0	1.8	5.6	(D)	(NA)	(NA)
232	Men's and boys' furnishings	-	3	3	0.5	3.0	0.5	0.8	2.7	4.0	1.8	5.6	(D)	(NA)	(NA)
	Mayodan	-	**6**	**4**	**2.5**	**20.3**	**2.3**	**4.4**	**17.0**	**39.3**	**101.2**	**140.8**	**(D)**	**(D)**	**(D)**
	Monroe	-	**75**	**40**	**6.6**	**55.2**	**5.3**	**10.1**	**36.6**	**88.6**	**217.0**	**310.8**	**7.8**	**5.5**	**73.7**
239	Miscellaneous fabricated textile products	-	6	5	0.9	5.8	0.8	1.5	4.2	11.1	20.2	31.3	(D)	(NA)	(NA)
	Mooresville	-	**30**	**12**	**4.4**	**36.2**	**3.9**	**7.5**	**29.4**	**66.1**	**87.7**	**153.4**	**(D)**	**4.7**	**36.5**
	Morehead City	-	**23**	**5**	**0.7**	**5.3**	**0.6**	**1.0**	**3.9**	**8.2**	**12.6**	**21.2**	**0.4**	**(NA)**	**(NA)**
	Morganton	-	**35**	**24**	**8.4**	**71.8**	**7.3**	**14.0**	**52.9**	**135.3**	**133.7**	**268.3**	**6.5**	**9.8**	**121.4**
	Mount Airy	-	**81**	**32**	**8.5**	**60.7**	**7.7**	**14.9**	**48.4**	**121.3**	**124.6**	**238.6**	**5.5**	**8.7**	**84.7**
	Mount Holly	-	**20**	**15**	**2.1**	**18.8**	**1.7**	**3.3**	**12.5**	**42.6**	**68.6**	**110.1**	**4.5**	**1.9**	**24.2**
22	Textile mill products	-	11	11	1.7	13.4	1.5	3.1	11.1	36.6	59.6	95.4	(D)	1.6	21.5
2281	Yarn mills, except wool	-	7	7	1.1	9.0	1.0	2.0	7.6	20.6	26.3	47.4	0.8	(NA)	(NA)
	Mount Olive	-	**13**	**6**	**1.3**	**9.3**	**1.1**	**2.6**	**8.9**	**20.5**	**15.4**	**35.9**	**0.3**	**0.8**	**6.5**
	New Bern	-	**60**	**23**	**1.9**	**22.5**	**1.5**	**2.7**	**16.1**	**58.1**	**93.2**	**148.8**	**11.4**	**2.1**	**29.5**
	Newton	-	**70**	**34**	**5.2**	**39.9**	**4.6**	**8.5**	**32.2**	**76.7**	**105.2**	**179.5**	**3.4**	**5.1**	**57.2**
22	Textile mill products	-	16	12	2.2	16.7	2.1	3.7	14.3	33.6	42.3	74.9	1.8	2.0	21.5
2252	Hosiery, n.e.c.	-	6	6	0.8	4.8	0.8	1.3	4.0	7.8	11.0	18.8	0.2	(NA)	(NA)
23	Apparel and other textile products	-	7	5	0.7	4.3	0.6	1.0	3.8	6.2	5.1	11.3	0.2	(NA)	(NA)
25	Furniture and fixtures	-	14	8	1.6	12.0	1.5	2.6	10.1	24.4	31.2	54.7	1.0	1.6	21.2
251	Household furniture	-	14	8	1.6	12.0	1.5	2.6	10.1	24.4	31.2	54.7	1.0	(NA)	(NA)
	Oxford	-	**25**	**10**	**1.3**	**10.5**	**1.0**	**2.0**	**7.2**	**28.3**	**44.1**	**70.6**	**3.6**	**2.5**	**35.0**
	Raleigh	-	**191**	**55**	**9.6**	**110.6**	**6.1**	**11.9**	**57.3**	**279.1**	**272.8**	**544.4**	**16.8**	**8.1**	**137.1**
27	Printing and publishing	-	53	9	1.1	11.7	0.6	1.0	5.0	28.0	16.2	44.2	1.1	(NA)	(NA)
36	Electric and electronic equipment	-	19	8	2.4	27.8	1.6	3.0	14.6	74.7	32.7	102.4	6.5	1.3	23.2
--	Administrative and auxiliary	-	8	4	0.5	7.2	-	-	-	-	-	-	-	(NA)	(NA)
	Red Springs	-	**8**	**5**	**0.8**	**7.4**	**0.7**	**1.5**	**6.1**	**14.1**	**24.1**	**38.4**	**0.3**	**(D)**	**(D)**
	Rockingham	-	**29**	**14**	**2.2**	**18.8**	**1.9**	**4.0**	**15.1**	**54.3**	**73.0**	**125.8**	**2.8**	**1.4**	**6.7**
	Rocky Mount	-	**79**	**44**	**10.1**	**90.2**	**8.5**	**16.8**	**69.2**	**234.4**	**395.3**	**625.6**	**23.5**	**7.7**	**101.6**
20	Food and kindred products	-	15	8	1.2	12.3	0.7	1.5	6.7	31.9	56.6	88.1	1.9	1.0	14.9
21	Tobacco products	-	5	4	0.7	4.3	0.6	0.9	3.0	2.0	62.9	66.5	0.6	0.8	6.0
2141	Tobacco stemming and redrying	-	5	4	0.7	4.3	0.6	0.9	3.0	2.0	62.9	66.5	0.6	(NA)	(NA)
22	Textile mill products	-	13	11	3.3	28.6	2.9	5.9	23.2	64.8	141.3	204.5	6.4	(NA)	(NA)
2211	Weaving mills, cotton	-	4	4	0.7	6.3	0.6	1.2	5.1	18.0	19.7	36.9	(D)	(NA)	(NA)
23	Apparel and other textile products	-	6	4	1.0	6.9	1.0	1.7	5.9	13.8	33.8	48.1	(D)	1.3	14.4
25	Furniture and fixtures	-	6	4	0.6	4.6	0.5	0.8	3.3	10.9	12.2	22.9	(D)	(NA)	(NA)
34	Fabricated metal products	-	7	5	1.1	10.6	0.9	1.8	8.0	24.1	25.1	46.4	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Rutherfordton	-	**28**	**11**	**1.9**	**16.2**	**1.6**	**3.4**	**11.6**	**29.4**	**31.5**	**61.2**	**1.7**	**1.5**	**20.4**
	Sanford	-	**87**	**29**	**5.1**	**43.1**	**4.4**	**8.3**	**32.3**	**98.7**	**98.9**	**201.4**	**9.9**	**5.6**	**81.2**
25	Furniture and fixtures	-	4	4	0.5	3.9	0.5	0.9	3.1	9.8	9.7	19.7	0.6	(NA)	(NA)
	Scotland Neck	-	**12**	**4**	**0.6**	**3.6**	**0.5**	**1.0**	**3.2**	**7.2**	**8.2**	**15.3**	**0.3**	**(NA)**	**(NA)**
	Shelby	-	**49**	**24**	**4.9**	**45.6**	**4.0**	**8.0**	**34.8**	**78.0**	**103.3**	**181.4**	**(D)**	**6.9**	**98.7**
20	Food and kindred products	-	7	4	0.6	6.6	0.3	0.6	2.6	10.1	12.7	22.8	(D)	(NA)	(NA)
22	Textile mill products	-	11	8	3.5	32.2	3.1	6.2	27.4	55.1	66.1	121.3	10.0	4.3	51.1
	Siler City	-	**29**	**15**	**2.7**	**22.2**	**2.4**	**4.5**	**17.6**	**42.5**	**72.3**	**114.4**	**2.1**	**2.7**	**34.7**
22	Textile mill products	-	4	4	1.5	11.5	1.4	2.6	9.7	21.5	25.0	46.2	(D)	1.2	14.7
	Smithfield	-	**29**	**9**	**1.4**	**11.9**	**1.2**	**2.1**	**7.7**	**30.4**	**76.0**	**105.5**	**1.4**	**(D)**	**(D)**
	Southern Pines	-	**14**	**6**	**0.8**	**7.7**	**0.7**	**1.4**	**6.6**	**22.2**	**7.9**	**30.0**	**0.2**	**(NA)**	**(NA)**
	Spindale	-	**10**	**7**	**3.1**	**27.7**	**2.7**	**5.2**	**21.9**	**51.5**	**45.5**	**97.3**	**5.3**	**2.8**	**71.4**
22	Textile mill products	-	5	5	3.0	26.8	2.6	5.1	21.4	49.6	43.4	93.3	(D)	(NA)	(NA)
	Statesville	-	**81**	**53**	**7.9**	**67.1**	**6.7**	**13.0**	**47.6**	**161.2**	**184.8**	**347.9**	**36.6**	**8.0**	**100.2**
22	Textile mill products	-	15	13	1.9	15.9	1.6	3.1	11.8	32.3	50.8	83.1	(D)	2.8	33.6
225	Knitting mills	E1	7	6	0.6	4.7	0.5	0.8	3.7	4.2	24.4	29.2	(D)	(NA)	(NA)
23	Apparel and other textile products	-	11	9	2.0	11.8	1.9	3.5	9.5	22.0	14.5	37.0	(D)	1.8	16.5
25	Furniture and fixtures	-	10	9	1.3	9.5	1.1	2.2	7.3	18.3	13.1	31.5	0.6	1.0	8.4
35	Machinery, except electrical	-	8	4	0.6	7.2	0.5	0.9	4.4	22.3	9.4	31.6	(D)	(NA)	(NA)
	Tarboro	-	**25**	**16**	**4.2**	**40.5**	**3.5**	**7.1**	**28.6**	**130.8**	**103.8**	**235.4**	**7.1**	**4.2**	**57.0**
225	Knitting mills	-	4	4	0.8	7.0	0.7	1.4	5.4	12.4	15.6	28.5	0.4	(NA)	(NA)
	Thomasville	-	**114**	**44**	**8.5**	**74.3**	**6.9**	**13.3**	**52.2**	**131.5**	**126.5**	**255.7**	**6.1**	**8.1**	**89.4**
225	Knitting mills	-	6	4	0.9	6.1	0.8	1.5	5.4	11.5	10.7	22.3	0.1	(NA)	(NA)
25	Furniture and fixtures	-	25	8	3.5	33.1	3.1	6.2	26.7	64.0	33.4	95.2	(D)	(NA)	(NA)
	Valdese	-	**22**	**14**	**3.8**	**32.7**	**3.1**	**5.6**	**22.4**	**57.6**	**69.5**	**126.3**	**2.7**	**4.3**	**44.3**
22	Textile mill products	-	11	9	2.7	21.3	2.4	4.3	16.4	32.9	53.4	85.6	(D)	3.1	27.5
	Wadesboro	-	**32**	**10**	**2.3**	**19.7**	**2.0**	**4.1**	**14.2**	**39.1**	**50.5**	**89.2**	**4.0**	**2.1**	**26.7**
22	Textile mill products	-	6	5	2.0	17.9	1.8	3.7	12.8	35.4	45.7	80.9	3.8	(NA)	(NA)
	Wake Forest	-	**16**	**7**	**0.8**	**10.3**	**0.6**	**1.2**	**5.4**	**18.7**	**29.7**	**53.4**	**3.3**	**0.6**	**7.0**
	Washington	-	**36**	**14**	**3.1**	**30.6**	**2.5**	**5.2**	**22.1**	**59.8**	**83.3**	**143.0**	**7.3**	**2.6**	**18.0**
	Whiteville	-	**29**	**12**	**1.8**	**17.1**	**1.5**	**3.1**	**12.6**	**54.8**	**72.7**	**127.5**	**(D)**	**1.7**	**27.0**
	Wilmington	-	**114**	**42**	**6.5**	**83.8**	**4.8**	**9.4**	**43.5**	**179.7**	**239.2**	**419.6**	**8.9**	**7.7**	**192.0**
23	Apparel and other textile products	-	5	3	1.3	7.4	0.9	1.5	4.5	14.9	12.3	26.6	0.2	(NA)	(NA)
	Wilson	-	**64**	**34**	**6.4**	**66.3**	**5.1**	**9.7**	**47.5**	**191.5**	**300.9**	**485.9**	**10.9**	**5.4**	**82.2**
20	Food and kindred products	-	11	7	0.6	7.0	0.3	0.6	3.9	14.6	80.8	97.0	1.1	0.9	19.2
	Winston-Salem	-	**205**	**91**	**33.3**	**479.3**	**22.0**	**42.6**	**267.2**	**1 865.2**	**1 390.4**	**3 240.6**	**80.5**	**32.3**	**1 062.0**
205	Bakery products	-	6	6	0.9	8.6	0.5	1.0	4.9	18.1	15.1	33.3	0.7	(NA)	(NA)
34	Fabricated metal products	-	24	13	3.3	33.9	1.9	3.7	20.9	64.8	104.1	169.3	2.8	1.0	15.1
344	Fabricated structural metal products	-	11	6	1.2	14.9	0.8	1.6	8.2	21.4	32.0	54.8	0.9	(NA)	(NA)
--	Administrative and auxiliary	-	18	16	4.7	96.9	-	-	-	-	-	-	-	(NA)	(NA)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NORTH CAROLINA	9954	666	36	1372	702	2072	664	171	925	281	28	244	42	448	87	469	841	200	177	78	234	217
1 TO 4 EMPLOYEES	3750	219	4	210	127	1237	158	23	529	73	20	57	14	160	29	154	395	65	85	28	128	35
5 TO 9 EMPLOYEES	1121	92	1	99	55	232	55	15	120	48	2	32	6	56	6	55	132	18	24	13	34	26
10 TO 19 EMPLOYEES	1078	80	1	111	52	234	60	17	102	34	3	27	3	86	7	68	106	19	15	10	23	20
20 TO 49 EMPLOYEES	1416	123	2	210	103	201	122	43	101	48	2	50	4	90	18	93	102	20	17	11	20	36
50 TO 99 EMPLOYEES	824	56	2	170	103	100	79	25	44	40	-	26	2	26	6	38	37	10	8	2	11	39
100 TO 249 EMPLOYEES	991	60	12	274	169	55	92	38	20	19	1	36	7	21	15	38	45	22	14	4	11	38
250 TO 499 EMPLOYEES	485	27	8	179	75	11	65	4	5	5	-	10	5	4	5	15	13	22	8	5	5	14
500 TO 999 EMPLOYEES	198	7	1	85	17	2	25	2	3	5	-	2	1	3	1	6	9	15	5	3	1	5
1000 TO 2499 EMPLOYEES	74	1	3	29	1	-	7	4	1	4	-	4	-	2	-	2	1	8	1	2	1	3
2500 EMPLOYEES AND OVER	17	1	2	5	-	-	1	-	-	5	-	-	-	-	-	-	1	1	-	-	-	1
ALAMANCE COUNTY	255	12	-	120	15	15	3	7	17	3	1	4	2	6	4	4	22	5	3	1	8	3
1 TO 19 EMPLOYEES	131	10	-	44	7	11	-	3	12	2	1	1	1	4	2	3	17	3	3	1	5	1
20 TO 99 EMPLOYEES	71	2	-	35	7	4	-	4	4	1	-	2	-	2	2	1	4	-	-	-	2	1
100 TO 249 EMPLOYEES	29	-	-	21	1	-	2	-	1	-	-	1	1	-	-	-	1	-	-	-	1	-
250 EMPLOYEES AND OVER	24	-	-	20	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1
ALEXANDER COUNTY	80	5	-	5	5	42	15	1	1	-	-	2	-	1	1	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	55	4	-	2	2	34	8	-	1	-	-	-	-	1	1	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	15	-	-	1	1	8	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	1	-	1	1	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALLEGHANY COUNTY	19	-	-	-	2	10	1	1	1	-	-	-	1	1	-	-	-	-	-	-	2	-
1 TO 19 EMPLOYEES	15	-	-	-	-	10	1	1	1	-	-	-	-	1	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
ANSON COUNTY	63	1	-	10	6	34	-	-	3	-	-	1	-	4	-	-	3	-	-	1	-	-
1 TO 19 EMPLOYEES	40	1	-	1	1	30	-	-	3	-	-	1	-	3	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	13	-	-	3	3	3	-	-	-	-	-	-	-	1	-	-	2	-	-	1	-	-
100 TO 249 EMPLOYEES	6	-	-	2	2	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ASHE COUNTY	51	2	-	2	3	34	1	-	2	-	-	-	-	2	-	-	-	2	1	-	2	-
1 TO 19 EMPLOYEES	41	1	-	2	-	30	-	-	2	-	-	-	-	2	-	-	-	1	1	-	2	-
20 TO 99 EMPLOYEES	4	1	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AVERY COUNTY	10	-	-	3	-	2	-	-	1	1	-	-	-	3	-	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	8	-	-	1	-	2	-	-	1	1	-	-	-	3	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BEAUFORT COUNTY	73	15	-	1	7	25	1	-	3	2	1	2	-	2	-	1	5	1	7	-	-	-
1 TO 19 EMPLOYEES	48	9	-	-	2	19	-	-	2	-	1	2	-	2	-	1	4	-	6	-	-	-
20 TO 99 EMPLOYEES	17	5	-	-	4	6	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	1	1	-	1	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
BERTIE COUNTY	41	2	-	-	4	29	-	-	1	-	-	-	1	1	-	1	2	-	-	-	-	-
1 TO 19 EMPLOYEES	28	1	-	-	1	23	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	2	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
BLADEN COUNTY	72	2	-	5	5	47	-	-	2	1	-	-	-	3	1	2	1	1	-	1	1	-
1 TO 19 EMPLOYEES	57	2	-	2	-	43	-	-	2	1	-	-	-	3	-	1	1	1	-	-	1	-
20 TO 99 EMPLOYEES	6	-	-	-	2	3	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	2	3	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BRUNSWICK COUNTY	48	7	-	1	3	18	1	-	5	4	-	-	-	-	-	-	-	-	-	1	-	-
1 TO 19 EMPLOYEES	40	5	-	1	1	18	1	-	5	-	-	-	-	-	2	-	1	1	4	-	1	-
20 TO 99 EMPLOYEES	5	2	-	-	1	-	-	-	-	2	-	-	-	-	2	-	1	1	4	-	1	-
100 TO 249 EMPLOYEES	3	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
BUNCOMBE COUNTY	238	17	-	30	20	22	9	1	29	2	1	9	1	11	4	22	24	11	6	7	7	5
1 TO 19 EMPLOYEES	124	7	-	8	6	15	3	-	23	-	1	5	-	8	3	12	13	3	3	5	7	2
20 TO 99 EMPLOYEES	67	7	-	11	10	3	5	1	4	1	-	2	1	2	-	9	10	1	-	-	-	-
100 TO 249 EMPLOYEES	26	2	-	7	2	3	-	-	1	-	-	2	-	-	1	1	1	1	2	1	-	2
250 EMPLOYEES AND OVER	21	1	-	4	2	1	1	-	1	1	-	-	-	1	-	-	-	6	1	1	-	1

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
BURKE COUNTY	154	3	-	58	8	29	20	1	7	3	-	3	1	5	-	2	6	5	-	-	2	1
1 TO 19 EMPLOYEES	79	1	-	23	2	22	8	-	6	-	-	1	-	4	-	2	6	3	-	-	1	-
20 TO 99 EMPLOYEES	38	-	-	19	4	6	3	-	1	2	-	2	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	14	-	-	8	-	1	2	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	23	2	-	8	2	-	7	-	-	-	-	-	1	-	-	-	-	2	-	-	-	1
CABARRUS COUNTY	111	5	-	50	10	8	-	2	8	6	-	2	2	1	-	3	9	-	2	1	-	2
1 TO 19 EMPLOYEES	58	2	-	16	4	8	-	-	5	5	-	2	2	1	-	1	8	-	2	1	-	1
20 TO 99 EMPLOYEES	30	3	-	14	4	-	-	2	3	1	-	-	-	-	-	2	1	-	-	-	-	-
100 TO 249 EMPLOYEES	12	-	-	11	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	11	-	-	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
CALDWELL COUNTY	162	2	-	22	5	47	38	8	7	6	-	3	-	7	-	3	6	-	-	-	4	4
1 TO 19 EMPLOYEES	79	1	-	2	1	34	12	3	6	1	-	1	-	6	-	2	5	-	-	-	3	2
20 TO 99 EMPLOYEES	45	1	-	9	3	10	9	3	1	5	-	1	-	-	-	1	1	-	-	-	-	1
100 TO 249 EMPLOYEES	20	-	-	10	1	3	2	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	18	-	-	1	-	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
CAMDEN COUNTY	8	-	-	-	-	7	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	8	-	-	-	-	7	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CARTERET COUNTY	58	17	-	-	3	8	1	1	3	-	3	-	-	2	-	1	3	-	15	-	1	-
1 TO 19 EMPLOYEES	45	13	-	-	-	6	-	-	2	-	2	-	-	2	-	1	3	-	15	-	1	-
20 TO 99 EMPLOYEES	8	4	-	-	1	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CASWELL COUNTY	8	1	-	1	1	-	-	-	-	1	-	-	-	1	-	-	1	1	-	1	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CATAWBA COUNTY	560	9	-	161	33	71	139	16	23	5	1	26	2	18	4	8	24	3	3	2	7	5
1 TO 19 EMPLOYEES	288	5	-	76	17	48	48	6	18	5	1	7	1	15	2	6	21	2	1	2	7	-
20 TO 99 EMPLOYEES	164	1	-	50	7	22	48	7	4	-	-	15	1	2	1	1	2	-	1	-	-	2
100 TO 249 EMPLOYEES	75	3	-	27	7	1	24	2	1	-	-	3	-	1	1	-	1	-	1	-	-	3
250 EMPLOYEES AND OVER	33	-	-	8	2	-	19	1	-	-	-	1	-	-	-	1	-	1	-	-	-	-
CHATHAM COUNTY	87	12	-	8	2	40	4	-	5	2	-	1	-	4	-	2	4	1	1	-	-	1
1 TO 19 EMPLOYEES	56	5	-	-	1	33	1	-	5	-	-	-	-	2	-	2	4	1	1	-	-	1
20 TO 99 EMPLOYEES	14	4	-	1	-	5	1	-	-	1	-	1	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	9	3	-	4	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	8	-	-	3	1	1	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
CHEROKEE COUNTY	33	1	-	2	3	16	1	-	3	-	-	-	-	3	-	-	1	1	1	1	-	-
1 TO 19 EMPLOYEES	21	1	-	1	-	13	-	-	3	-	-	-	-	2	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	7	-	-	-	2	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
250 EMPLOYEES AND OVER	4	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
CHOWAN COUNTY	31	8	-	3	-	8	-	-	2	-	-	-	-	-	-	2	5	-	2	-	1	-
1 TO 19 EMPLOYEES	18	5	-	-	-	4	-	-	2	-	-	-	-	-	-	1	5	-	1	-	-	-
20 TO 99 EMPLOYEES	7	2	-	-	-	3	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
100 TO 249 EMPLOYEES	6	1	-	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
CLAY COUNTY	11	-	-	1	2	4	-	-	-	-	-	-	-	-	1	1	-	1	-	-	1	-
1 TO 19 EMPLOYEES	7	-	-	1	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
CLEVELAND COUNTY	167	13	-	58	9	18	3	3	12	3	-	3	-	12	2	7	16	2	1	1	2	2
1 TO 19 EMPLOYEES	93	7	-	21	3	15	-	2	8	2	-	3	-	6	1	5	15	1	-	1	1	2
20 TO 99 EMPLOYEES	39	5	-	11	4	3	2	-	4	-	-	-	-	5	1	2	1	-	-	-	1	-
100 TO 249 EMPLOYEES	15	-	-	12	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	20	1	-	14	1	-	-	-	-	1	-	-	-	1	-	-	-	1	1	-	-	-
COLUMBUS COUNTY	93	4	-	3	12	47	1	1	3	5	-	-	-	4	-	4	5	1	3	-	-	-
1 TO 19 EMPLOYEES	65	4	-	1	4	40	-	-	1	2	-	-	-	3	-	3	4	1	2	-	-	-
20 TO 99 EMPLOYEES	18	-	-	1	3	4	1	-	2	3	-	-	-	1	-	1	1	-	1	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	1	3	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
CRAVEN COUNTY	97	6	-	-	8	51	-	2	9	3	1	1	-	3	-	4	3	-	4	-	-	2
1 TO 19 EMPLOYEES	65	3	-	-	2	42	-	1	7	-	1	1	-	1	-	2	1	-	2	-	-	2
20 TO 99 EMPLOYEES	26	3	-	-	5	8	-	-	2	2	-	-	-	2	-	2	1	-	1	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	-	-	-
CUMBERLAND COUNTY	141	16	-	7	13	35	7	2	13	6	-	2	-	7	1	3	15	-	3	2	6	3
1 TO 19 EMPLOYEES	88	8	-	-	6	25	4	2	12	4	-	-	-	3	1	-	14	-	2	2	4	1
20 TO 99 EMPLOYEES	31	5	-	-	5	7	3	-	-	1	-	-	-	4	-	2	-	-	-	-	2	2
100 TO 249 EMPLOYEES	12	3	-	5	-	3	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	2	2	-	-	-	1	1	-	1	-	-	-	1	1	-	1	-	-	-
CURRITUCK COUNTY	6	-	-	-	1	3	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	1	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DARE COUNTY	18	4	-	-	1	2	-	-	1	1	-	1	-	1	-	-	-	-	5	-	2	-
1 TO 19 EMPLOYEES	17	4	-	-	1	2	-	-	1	1	-	1	-	-	-	-	-	-	5	-	2	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
OAVIOSON COUNTY	283	10	-	28	14	90	52	4	14	1	-	10	2	8	1	9	23	3	2	1	5	6
1 TO 19 EMPLOYEES	176	6	-	9	7	71	26	2	9	1	-	8	2	3	-	4	17	1	2	-	5	3
20 TO 99 EMPLOYEES	63	2	-	9	5	17	10	1	5	-	-	1	-	1	1	3	5	1	-	1	-	1
100 TO 249 EMPLOYEES	23	2	-	3	1	2	9	1	-	-	-	-	-	3	-	-	1	-	-	-	-	1
250 EMPLOYEES AND OVER	21	-	-	7	1	-	7	-	-	-	-	1	-	1	-	2	-	1	-	-	-	1
OAVIE COUNTY	51	4	1	2	9	24	3	-	1	-	-	-	-	1	-	1	3	-	-	-	1	1
1 TO 19 EMPLOYEES	31	3	-	-	3	20	1	-	-	-	-	-	-	1	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	11	1	-	1	3	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	7	-	1	1	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
250 EMPLOYEES AND OVER	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
OUPLIN COUNTY	61	7	-	6	7	24	2	-	1	2	-	1	2	3	-	-	3	-	-	1	2	-
1 TO 19 EMPLOYEES	42	3	-	1	-	21	2	-	1	2	-	1	2	3	-	-	3	-	-	1	2	-
20 TO 99 EMPLOYEES	7	1	-	-	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	8	2	-	2	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	1	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OURHAM COUNTY	146	12	3	4	4	15	4	2	32	7	-	4	-	11	-	8	14	5	3	4	2	12
1 TO 19 EMPLOYEES	90	6	-	2	2	14	2	-	28	7	-	3	-	4	-	5	6	3	2	2	2	2
20 TO 99 EMPLOYEES	30	2	-	1	-	1	2	1	2	-	-	1	-	6	-	3	4	1	1	1	-	4
100 TO 249 EMPLOYEES	14	3	1	-	1	-	-	1	1	-	-	-	-	1	-	-	2	-	-	-	-	4
250 EMPLOYEES AND OVER	12	1	2	1	1	-	-	-	1	-	-	-	-	-	-	-	2	1	-	1	-	2
EOGECOMBE COUNTY	59	5	1	12	3	4	4	1	4	2	-	2	-	3	1	3	6	1	2	-	3	2
1 TO 19 EMPLOYEES	24	2	-	2	1	2	2	-	2	2	-	1	-	2	-	1	4	-	-	-	1	2
20 TO 99 EMPLOYEES	18	3	1	2	-	1	2	1	2	-	-	1	-	1	-	2	-	-	1	-	1	-
100 TO 249 EMPLOYEES	8	-	-	3	1	1	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-
250 EMPLOYEES AND OVER	9	-	-	5	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-
FORSYTH COUNTY	292	28	6	14	13	19	15	6	43	9	-	5	1	15	5	32	31	9	6	5	12	18
1 TO 19 EMPLOYEES	171	14	2	6	10	15	7	2	35	4	-	4	1	8	2	14	22	4	5	4	10	2
20 TO 99 EMPLOYEES	64	7	1	1	1	4	4	1	6	5	-	1	-	6	1	9	5	2	1	-	1	8
100 TO 249 EMPLOYEES	25	3	2	2	1	-	1	3	-	-	-	-	-	-	1	4	2	-	-	1	1	4
250 EMPLOYEES AND OVER	32	4	1	5	1	-	3	-	2	-	-	-	-	1	1	5	2	3	-	-	-	4
FRANKLIN COUNTY	58	-	-	3	7	39	4	-	1	-	-	-	-	1	-	-	1	-	-	1	1	-
1 TO 19 EMPLOYEES	43	-	-	-	3	35	1	-	1	-	-	-	-	1	-	-	1	-	-	-	1	-
20 TO 99 EMPLOYEES	7	-	-	-	1	4	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES	6	-	-	2	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GASTON COUNTY	423	10	-	107	20	13	1	5	34	12	-	14	2	12	5	32	129	4	5	1	8	9
1 TO 19 EMPLOYEES	241	6	-	23	9	9	1	3	28	6	-	8	1	8	3	27	98	3	3	1	4	-
20 TO 99 EMPLOYEES	84	2	-	20	8	3	-	1	3	3	-	3	1	3	2	4	24	-	1	-	2	4
100 TO 249 EMPLOYEES	60	2	-	34	2	1	-	1	3	2	-	3	-	-	-	1	4	1	-	-	1	5
250 EMPLOYEES AND OVER	38	-	-	30	1	-	-	-	-	1	-	-	-	1	-	-	3	-	1	-	1	-
GATES COUNTY	18	-	-	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	16	-	-	-	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
GRAHAM COUNTY	11	-	-	-	1	7	1	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
1 TO 19 EMPLOYEES	8	-	-	-	1	6	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRANVILLE COUNTY	47	1	1	11	6	15	-	-	3	1	-	2	-	-	-	2	1	2	-	-	2	-
1 TO 19 EMPLOYEES	24	1	-	1	3	12	-	-	3	1	-	-	-	-	-	1	1	-	-	-	1	-
20 TO 99 EMPLOYEES	12	-	-	5	2	3	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	8	-	1	3	1	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	1	-
250 EMPLOYEES AND OVER	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
GREENE COUNTY	10	2	-	1	2	1	1	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	1	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GUILFORD COUNTY	836	38	1	79	32	73	125	22	114	34	6	34	3	29	12	58	78	18	8	4	32	36
1 TO 19 EMPLOYEES	463	18	-	28	15	50	57	7	91	15	6	17	1	16	5	31	54	12	5	4	23	8
20 TO 99 EMPLOYEES	247	11	-	22	9	21	47	9	17	14	-	14	2	12	5	18	19	3	-	-	7	17
100 TO 249 EMPLOYEES	83	7	-	16	6	1	13	6	5	4	-	2	-	1	2	8	4	-	1	-	2	5
250 EMPLOYEES AND OVER	43	2	1	13	2	1	8	-	1	1	-	1	-	-	-	1	1	3	2	-	-	6
HALIFAX COUNTY	96	4	-	8	7	52	-	2	3	-	-	2	-	4	-	2	2	1	4	-	2	3
1 TO 19 EMPLOYEES	61	1	-	-	2	45	-	-	2	-	-	-	-	1	-	1	2	1	4	-	2	-
20 TO 99 EMPLOYEES	19	3	-	2	1	6	-	1	1	-	-	-	-	2	-	1	-	-	-	-	-	2
100 TO 249 EMPLOYEES	10	-	-	2	3	1	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	1
250 EMPLOYEES AND OVER	6	-	-	4	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARNETT COUNTY	45	5	-	2	7	8	3	-	4	-	-	-	-	5	-	-	5	3	2	-	1	-
1 TO 19 EMPLOYEES	28	2	-	1	1	5	2	-	4	-	-	-	-	4	-	-	5	1	2	-	1	-
20 TO 99 EMPLOYEES	5	2	-	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	7	1	-	-	3	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
HAYWOOD COUNTY	33	1	-	1	-	7	2	2	5	3	-	1	3	3	-	1	1	2	1	-	-	-
1 TO 19 EMPLOYEES	20	1	-	-	-	5	1	-	4	2	-	-	1	1	-	1	1	2	1	-	-	-
20 TO 99 EMPLOYEES	7	-	-	1	-	2	-	-	1	1	-	-	-	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	1	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-
HENDERSON COUNTY	93	7	-	9	9	12	1	4	9	2	1	1	1	6	1	8	15	2	1	-	2	2
1 TO 19 EMPLOYEES	63	6	-	1	4	11	-	1	7	2	1	1	1	4	1	6	12	1	-	-	2	2
20 TO 99 EMPLOYEES	21	1	-	6	2	1	-	2	2	-	-	-	-	1	-	2	3	-	1	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	3	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-
HERTFORD COUNTY	47	3	-	1	3	22	-	-	2	1	-	1	-	2	1	2	6	-	1	-	1	1
1 TO 19 EMPLOYEES	34	2	-	-	-	18	-	-	1	-	-	1	-	2	-	2	6	-	1	-	-	1
20 TO 99 EMPLOYEES	5	1	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	6	-	-	-	2	1	-	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HOKE COUNTY	11	2	-	4	-	2	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HYDE COUNTY	8	4	-	-	-	2	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	2	-	-	-	2	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IREDELL COUNTY	184	14	-	29	16	24	19	5	8	2	-	7	-	12	1	12	27	2	2	3	1	-
1 TO 19 EMPLOYEES	90	7	-	7	2	19	1	-	7	-	-	5	-	7	1	8	21	2	1	2	-	-
20 TO 99 EMPLOYEES	54	7	-	11	4	4	10	2	1	2	-	-	-	5	-	3	3	-	1	-	1	-
100 TO 249 EMPLOYEES	20	-	-	3	3	1	6	3	-	-	-	2	-	-	-	-	2	-	-	-	-	-
250 EMPLOYEES AND OVER	20	-	-	8	7	-	2	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-
JACKSON COUNTY	17	1	-	-	3	8	-	-	1	-	-	1	-	1	-	-	-	-	1	-	1	-
1 TO 19 EMPLOYEES	11	1	-	-	-	6	-	-	1	-	-	-	-	1	-	-	-	-	1	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
JOHNSTON COUNTY	107	15	1	6	6	37	3	-	10	4	1	1	-	3	-	2	5	9	2	1	1	-
1 TO 19 EMPLOYEES	75	11	-	1	1	31	2	-	9	2	1	-	-	3	-	2	5	4	2	-	1	-
20 TO 99 EMPLOYEES	15	3	-	1	1	5	-	-	1	1	-	1	-	-	-	-	-	1	-	1	-	-
100 TO 249 EMPLOYEES	9	1	-	1	2	1	1	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-
250 EMPLOYEES AND OVER	8	-	1	3	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
JONES COUNTY	14	-	-	-	3	10	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	12	-	-	-	1	10	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEE COUNTY	100	9	1	9	7	28	4	-	4	2	-	1	1	5	1	7	15	2	1	-	3	-
1 TO 19 EMPLOYEES	63	6	1	1	3	27	-	-	3	1	-	1	1	2	-	5	9	-	-	-	3	-
20 TO 99 EMPLOYEES	15	3	-	3	1	1	2	-	1	-	-	-	-	2	1	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	13	-	-	4	1	-	1	-	-	-	-	-	-	1	-	1	4	1	-	-	-	-
250 EMPLOYEES AND OVER	9	-	-	1	2	-	1	-	-	1	-	-	-	-	-	1	1	1	1	-	-	-
LENOIR COUNTY	80	11	1	7	13	16	-	2	6	3	-	1	1	4	-	5	3	2	2	1	1	1
1 TO 19 EMPLOYEES	41	6	-	1	2	14	-	-	5	-	-	-	1	2	-	2	3	-	2	1	1	1
20 TO 99 EMPLOYEES	24	4	-	3	6	2	-	2	1	2	-	-	-	2	-	2	-	-	-	-	-	-
100 TO 249 EMPLOYEES	8	-	-	2	2	-	-	-	-	-	-	1	-	-	-	1	-	2	-	-	-	-
250 EMPLOYEES AND OVER	7	1	1	1	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
LINCOLN COUNTY	102	5	-	36	5	17	7	1	4	-	-	-	-	3	1	3	9	1	3	1	3	3
1 TO 19 EMPLOYEES	60	4	-	13	-	15	2	-	3	-	-	-	-	3	1	2	8	1	2	-	3	3
20 TO 99 EMPLOYEES	22	1	-	10	4	1	1	1	1	-	-	-	-	-	-	-	1	-	1	1	-	-
100 TO 249 EMPLOYEES	14	-	-	9	-	1	3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	4	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC DOWELL COUNTY	66	3	-	17	4	15	5	3	4	1	-	1	-	3	-	1	4	-	-	-	1	4
1 TO 19 EMPLOYEES	35	3	-	5	-	13	-	2	3	-	-	1	-	3	-	-	3	-	-	-	-	2
20 TO 99 EMPLOYEES	14	-	-	6	1	2	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	2
100 TO 249 EMPLOYEES	3	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	14	-	-	6	2	-	4	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-
MACON COUNTY	33	2	-	-	3	11	1	-	3	-	-	-	-	6	1	1	2	-	-	-	3	-
1 TO 19 EMPLOYEES	26	2	-	-	-	10	1	-	3	-	-	-	-	5	-	1	1	-	-	-	3	-
20 TO 99 EMPLOYEES	3	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	2	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
MADISON COUNTY	10	1	-	-	1	4	-	-	1	-	-	-	1	-	-	-	-	1	1	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	4	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
MARTIN COUNTY	37	6	2	1	3	14	1	-	2	-	-	-	1	2	-	2	1	-	-	-	1	1
1 TO 19 EMPLOYEES	25	5	-	-	-	12	-	-	2	-	-	-	-	2	-	2	1	-	-	-	-	1
20 TO 99 EMPLOYEES	4	-	2	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	-	2	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MECKLENBURG COUNTY	852	44	-	47	39	25	24	28	154	61	1	29	2	26	12	86	130	30	16	16	32	50
1 TO 19 EMPLOYEES	543	18	-	25	19	20	15	9	123	38	1	13	2	19	4	54	91	20	8	9	30	25
20 TO 99 EMPLOYEES	216	17	-	13	12	4	7	12	25	19	-	7	-	5	6	26	26	8	6	5	2	16
100 TO 249 EMPLOYEES	63	7	-	6	7	1	2	6	4	2	-	6	-	1	1	6	7	1	1	-	-	5
250 EMPLOYEES AND OVER	30	2	-	3	1	-	-	1	2	2	-	3	-	1	1	-	6	1	1	2	-	4
MITCHELL COUNTY	26	1	-	2	1	8	3	-	2	-	-	1	1	5	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	19	1	-	1	-	7	2	-	2	-	-	-	1	3	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	1	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONTGOMERY COUNTY	100	3	-	22	12	43	6	-	3	-	-	1	1	2	1	-	4	-	-	1	-	1
1 TO 19 EMPLOYEES	63	3	-	5	7	41	-	-	1	-	-	-	-	1	-	-	4	-	-	-	-	1
20 TO 99 EMPLOYEES	15	-	-	5	1	-	4	-	2	-	-	1	-	1	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES	17	-	-	8	3	2	2	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOORE COUNTY	77	7	-	7	6	23	4	-	10	3	-	1	-	3	-	3	4	1	-	1	2	2
1 TO 19 EMPLOYEES	50	5	-	-	-	22	1	-	8	3	-	1	-	3	-	2	2	-	-	1	1	1
20 TO 99 EMPLOYEES	13	1	-	2	2	1	1	-	2	-	-	-	-	-	-	-	2	-	-	-	1	1
100 TO 249 EMPLOYEES	9	1	-	3	3	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	2	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NASH COUNTY	114	15	4	13	22	23	5	-	5	1	1	2	-	4	1	7	6	3	-	-	2	-
1 TO 19 EMPLOYEES	51	9	1	2	4	15	-	-	4	-	1	-	-	4	1	2	6	1	-	-	1	-
20 TO 99 EMPLOYEES	28	3	-	3	7	6	4	-	1	-	-	-	-	-	-	2	-	2	-	-	-	-
100 TO 249 EMPLOYEES	19	2	2	1	8	2	-	-	-	-	-	2	-	-	-	1	-	-	-	-	1	-
250 EMPLOYEES AND OVER	16	1	1	7	3	-	1	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-
NEW HANOVER COUNTY	135	13	-	4	6	23	1	2	16	18	3	1	-	10	1	12	7	3	7	2	2	4
1 TO 19 EMPLOYEES	79	7	-	1	2	17	1	-	12	6	2	1	-	8	1	6	3	1	6	2	2	1
20 TO 99 EMPLOYEES	36	4	-	2	1	5	-	1	3	8	1	-	-	1	-	3	3	-	1	-	-	3
100 TO 249 EMPLOYEES	9	2	-	-	-	1	-	1	1	2	-	-	-	1	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	11	-	-	1	3	-	-	-	-	2	-	-	-	-	-	3	1	1	-	-	-	-
NORTHAMPTON COUNTY	40	2	-	-	4	24	-	-	-	4	-	-	-	-	-	-	1	-	-	-	5	-
1 TO 19 EMPLOYEES	22	2	-	-	-	17	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	13	-	-	-	2	5	-	-	-	2	-	-	-	-	-	-	1	-	-	-	3	-
100 TO 249 EMPLOYEES	4	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
ONSLOW COUNTY	40	4	-	-	6	13	-	1	7	-	-	-	-	1	-	-	2	1	2	1	2	-
1 TO 19 EMPLOYEES	28	3	-	-	1	11	-	-	6	-	-	-	-	1	-	-	2	1	-	1	2	-
20 TO 99 EMPLOYEES	6	-	-	-	2	1	-	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ORANGE COUNTY	58	1	-	7	2	13	3	1	16	2	-	-	-	5	-	-	3	-	1	1	3	-
1 TO 19 EMPLOYEES	45	1	-	1	1	13	2	-	12	2	-	-	-	5	-	-	3	-	1	1	3	-
20 TO 99 EMPLOYEES	7	-	-	3	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAMLICO COUNTY	18	15	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	14	11	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PASQUOTANK COUNTY	36	4	-	1	2	13	-	1	5	1	-	-	-	2	1	-	3	-	3	-	-	-
1 TO 19 EMPLOYEES	24	1	-	-	-	10	-	-	4	1	-	-	-	2	-	-	3	-	3	-	-	-
20 TO 99 EMPLOYEES	8	3	-	-	1	1	-	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PENDER COUNTY	22	3	-	1	1	10	-	-	2	-	-	1	-	-	-	-	-	1	-	1	2	-
1 TO 19 EMPLOYEES	16	2	-	-	-	8	-	-	2	-	-	1	-	-	-	-	-	1	-	1	1	-
20 TO 99 EMPLOYEES	5	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PERQUIMANS COUNTY	14	-	-	-	1	9	-	-	-	1	-	-	-	1	-	-	1	-	1	-	-	-
1 TO 19 EMPLOYEES	14	-	-	-	1	9	-	-	-	1	-	-	-	1	-	-	1	-	1	-	-	-
PERSON COUNTY	34	2	-	5	2	8	-	-	3	2	-	-	-	2	1	1	4	2	1	-	1	-
1 TO 19 EMPLOYEES	21	1	-	1	1	7	-	-	3	1	-	-	-	2	-	1	3	-	-	-	1	-
20 TO 99 EMPLOYEES	5	1	-	1	-	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
PITT COUNTY	92	8	2	8	9	11	-	3	17	7	-	1	1	3	-	2	12	1	5	-	2	-
1 TO 19 EMPLOYEES	56	3	-	2	2	10	-	2	15	5	-	1	1	2	-	2	8	-	2	-	1	-
20 TO 99 EMPLOYEES	16	4	-	3	1	1	-	1	2	1	-	-	-	1	-	-	1	-	1	-	-	-
100 TO 249 EMPLOYEES	10	-	1	-	5	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-
250 EMPLOYEES AND OVER	10	1	1	3	1	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	1	-
POLK COUNTY	26	-	-	10	-	9	-	-	5	-	-	-	-	1	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	19	-	-	5	-	9	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	4	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RANDOLPH COUNTY	274	11	-	57	26	70	38	3	12	-	1	9	4	10	2	8	13	2	-	1	5	2
1 TO 19 EMPLOYEES	163	7	-	14	11	60	19	1	11	-	1	3	2	9	2	4	13	-	-	1	4	1
20 TO 99 EMPLOYEES	60	2	-	22	8	9	9	-	1	-	-	3	1	1	-	2	-	-	-	-	1	1
100 TO 249 EMPLOYEES	29	1	-	9	6	-	7	2	-	-	-	2	-	-	-	2	-	-	-	-	-	-
250 EMPLOYEES AND OVER	22	1	-	12	1	1	3	-	-	-	-	1	1	-	-	-	-	2	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
RICHMOND COUNTY	64	9	-	11	6	14	1	5	3	2	-	-	1	2	1	4	1	-	3	-	1	-
1 TO 19 EMPLOYEES	30	5	-	1	2	9	-	1	2	2	-	-	1	2	1	2	-	-	1	-	1	-
20 TO 99 EMPLOYEES	19	3	-	3	1	5	1	2	1	-	-	-	-	-	-	2	1	-	-	-	-	-
100 TO 249 EMPLOYEES	8	-	-	2	3	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	7	1	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
ROBESON COUNTY	126	10	-	21	20	31	5	4	11	2	-	4	-	3	-	2	6	1	4	1	-	1
1 TO 19 EMPLOYEES	68	6	-	3	4	27	2	-	10	1	-	2	-	3	-	-	5	-	3	1	-	1
20 TO 99 EMPLOYEES	29	1	-	7	6	4	3	3	1	1	-	1	-	-	-	1	-	-	1	-	-	-
100 TO 249 EMPLOYEES	16	2	-	3	8	-	-	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-
250 EMPLOYEES AND OVER	13	1	-	8	2	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-
ROCKINGHAM COUNTY	103	6	3	25	10	14	4	1	12	-	1	1	-	8	2	6	7	1	1	-	-	1
1 TO 19 EMPLOYEES	49	5	1	3	1	12	3	1	8	-	1	-	-	5	-	3	6	-	-	-	-	-
20 TO 99 EMPLOYEES	20	1	-	6	-	2	-	-	3	-	-	-	-	2	1	3	1	-	1	-	-	-
100 TO 249 EMPLOYEES	9	-	1	-	4	-	-	-	1	-	-	-	-	1	1	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	25	-	1	16	5	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
ROWAN COUNTY	162	17	-	18	14	22	13	2	9	7	1	5	-	17	1	11	13	2	2	-	5	3
1 TO 19 EMPLOYEES	95	10	-	6	5	18	7	-	7	3	1	4	-	9	-	6	9	1	1	-	5	3
20 TO 99 EMPLOYEES	38	4	-	3	5	3	4	1	2	1	-	-	-	8	-	4	3	-	-	-	-	-
100 TO 249 EMPLOYEES	16	2	-	2	2	1	2	1	-	2	-	-	-	-	1	1	1	-	1	-	-	-
250 EMPLOYEES AND OVER	13	1	-	7	2	-	-	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-
RUTHERFORD COUNTY	85	4	-	25	10	14	3	-	7	2	-	7	-	4	-	1	3	1	1	-	2	1
1 TO 19 EMPLOYEES	45	3	-	9	2	11	-	-	7	1	-	-	-	4	-	1	3	-	1	-	2	1
20 TO 99 EMPLOYEES	18	1	-	4	3	3	-	-	-	1	-	5	-	-	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	10	-	-	4	4	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	12	-	-	8	1	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAMPSON COUNTY	73	7	-	2	10	31	3	-	4	1	-	2	-	5	1	3	3	1	-	-	-	-
1 TO 19 EMPLOYEES	44	2	-	-	3	25	2	-	3	1	-	1	-	2	1	2	2	-	-	-	-	-
20 TO 99 EMPLOYEES	18	4	-	-	1	6	-	-	1	-	-	1	-	3	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	1	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
SCOTLAND COUNTY	42	3	-	8	2	6	-	-	4	1	-	2	-	3	2	2	3	2	-	2	-	2
1 TO 19 EMPLOYEES	18	2	-	-	-	3	-	-	3	1	-	1	-	1	1	1	3	2	-	-	-	-
20 TO 99 EMPLOYEES	9	1	-	1	1	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2
100 TO 249 EMPLOYEES	5	-	-	1	-	-	-	-	-	-	-	1	-	1	1	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	6	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-
STANLY COUNTY	99	8	-	22	14	21	6	1	7	2	-	-	1	6	1	4	1	1	2	-	2	-
1 TO 19 EMPLOYEES	56	7	-	4	6	16	2	1	6	2	-	-	1	2	-	4	1	-	2	-	2	-
20 TO 99 EMPLOYEES	21	-	-	7	3	4	2	-	1	-	-	-	-	4	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	11	1	-	5	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	11	-	-	6	1	1	1	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-
STOKES COUNTY	25	2	1	5	2	4	1	-	1	-	-	-	-	1	1	3	-	1	2	-	1	-
1 TO 19 EMPLOYEES	18	2	-	3	1	4	1	-	1	-	-	-	-	1	1	2	-	-	1	-	1	-
20 TO 99 EMPLOYEES	4	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SURRY COUNTY	118	5	-	31	11	21	4	2	11	3	-	5	-	15	-	2	2	2	-	-	2	2
1 TO 19 EMPLOYEES	68	4	-	11	4	20	1	1	8	3	-	1	-	11	-	-	2	-	-	-	1	1
20 TO 99 EMPLOYEES	24	-	-	9	3	1	-	1	3	-	-	1	-	4	-	1	-	-	-	-	1	-
100 TO 249 EMPLOYEES	11	1	-	4	1	-	-	-	-	-	-	3	-	-	-	1	-	-	-	-	-	1
250 EMPLOYEES AND OVER	15	-	-	7	3	-	3	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
SWAIN COUNTY	14	4	-	2	3	2	1	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
1 TO 19 EMPLOYEES	7	3	-	2	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRANSYLVANIA COUNTY	18	1	-	1	3	4	-	1	2	-	-	1	-	-	-	1	3	-	-	1	-	-
1 TO 19 EMPLOYEES	11	1	-	-	1	4	-	-	2	-	-	-	-	-	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
TYRRELL COUNTY	14	3	-	-	1	9	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	9	2	-	-	-	6	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	1	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNION COUNTY	126	11	-	16	12	25	8	1	10	6	-	3	-	3	2	7	14	1	2	1	1	3
1 TO 19 EMPLOYEES	69	8	-	5	2	17	5	-	9	3	-	2	-	1	-	4	10	-	1	1	1	-
20 TO 99 EMPLOYEES	31	-	-	5	4	7	2	1	1	3	-	-	-	-	1	-	3	1	1	-	-	2
100 TO 249 EMPLOYEES	15	1	-	3	3	-	1	-	-	-	-	-	-	2	-	3	1	-	-	-	-	1
250 EMPLOYEES AND OVER	11	2	-	3	3	1	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-
VANCE COUNTY	52	4	1	14	4	7	3	-	6	1	-	-	-	4	-	2	3	-	2	-	-	1
1 TO 19 EMPLOYEES	19	1	-	1	-	3	2	-	5	1	-	-	-	2	-	-	2	-	1	-	-	1
20 TO 99 EMPLOYEES	18	2	-	5	2	3	1	-	1	-	-	-	-	1	-	2	-	-	1	-	-	-
100 TO 249 EMPLOYEES	7	-	-	4	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	8	1	1	4	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
WAKE COUNTY	346	19	2	10	17	37	8	4	77	8	1	9	-	28	4	21	28	33	7	7	16	10
1 TO 19 EMPLOYEES	236	7	1	3	9	30	7	2	66	3	1	5	-	20	4	9	19	19	6	6	14	5
20 TO 99 EMPLOYEES	61	5	-	2	3	5	1	1	9	3	-	4	-	7	-	7	4	5	1	-	1	3
100 TO 249 EMPLOYEES	31	4	1	3	4	2	-	1	1	1	-	-	-	1	-	2	5	4	-	-	-	2
250 EMPLOYEES AND OVER	18	3	-	2	1	-	-	-	1	1	-	-	-	-	-	3	-	5	-	1	1	-
WARREN COUNTY	39	1	-	2	2	30	-	-	1	-	-	-	-	-	-	-	1	-	1	-	1	-
1 TO 19 EMPLOYEES	32	1	-	-	-	27	-	-	1	-	-	-	-	-	-	-	1	-	1	-	1	-
20 TO 99 EMPLOYEES	3	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WASHINGTON COUNTY	24	2	-	-	1	16	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-	1
1 TO 19 EMPLOYEES	16	2	-	-	-	11	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
250 EMPLOYEES AND OVER	2	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WATAUGA COUNTY	45	4	-	1	1	17	2	-	3	1	-	1	1	4	-	2	2	2	-	-	4	-
1 TO 19 EMPLOYEES	37	4	-	1	-	16	1	-	2	1	-	1	-	3	-	1	2	1	-	-	4	-
20 TO 99 EMPLOYEES	4	-	-	-	-	1	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	1	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-	-
WAYNE COUNTY	96	13	1	4	8	26	4	1	8	-	3	-	1	4	2	8	5	3	1	-	2	2
1 TO 19 EMPLOYEES	55	6	-	-	1	22	3	-	6	-	2	-	-	2	1	4	5	1	-	-	2	-
20 TO 99 EMPLOYEES	19	5	-	-	2	3	-	1	2	-	-	-	-	2	-	2	-	-	-	-	-	2
100 TO 249 EMPLOYEES	13	-	1	2	3	1	1	-	-	-	1	-	-	-	-	2	-	2	-	-	-	-
250 EMPLOYEES AND OVER	9	2	-	2	2	-	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-
WILKES COUNTY	119	10	-	11	7	59	7	2	3	-	-	1	1	6	-	-	7	-	1	1	-	3
1 TO 19 EMPLOYEES	86	6	-	5	2	57	-	2	2	-	-	1	-	4	-	-	5	-	1	-	-	1
20 TO 99 EMPLOYEES	14	2	-	3	-	1	4	-	1	-	-	-	-	-	-	-	2	-	-	-	-	1
100 TO 249 EMPLOYEES	12	1	-	2	4	1	1	-	-	-	-	-	-	1	-	-	-	-	-	1	-	1
250 EMPLOYEES AND OVER	7	1	-	1	1	-	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
WILSON COUNTY	76	11	4	3	9	14	3	1	5	1	-	5	-	5	1	2	6	1	4	-	-	1
1 TO 19 EMPLOYEES	37	4	-	-	4	10	3	-	4	1	-	1	-	1	-	2	4	1	2	-	-	-
20 TO 99 EMPLOYEES	20	6	-	1	2	4	-	-	1	-	-	2	-	3	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	7	-	1	1	-	-	-	1	-	-	-	-	-	1	-	-	1	-	1	-	-	1
250 EMPLOYEES AND OVER	12	1	3	1	3	-	-	-	-	-	-	2	-	-	1	-	-	-	1	-	-	-
YAOKIN COUNTY	31	5	-	5	1	9	1	1	1	-	-	1	-	4	-	3	-	-	-	-	-	-
1 TO 19 EMPLOYEES	21	5	-	1	1	8	-	-	1	-	-	-	-	4	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	8	-	-	2	-	1	1	1	-	-	-	1	-	-	-	2	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YANCEY COUNTY	26	-	-	3	5	10	-	-	2	-	-	-	-	4	-	1	-	-	-	-	1	-
1 TO 19 EMPLOYEES	18	-	-	-	3	8	-	-	2	-	-	-	-	4	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	4	-	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manfacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

North Dakota

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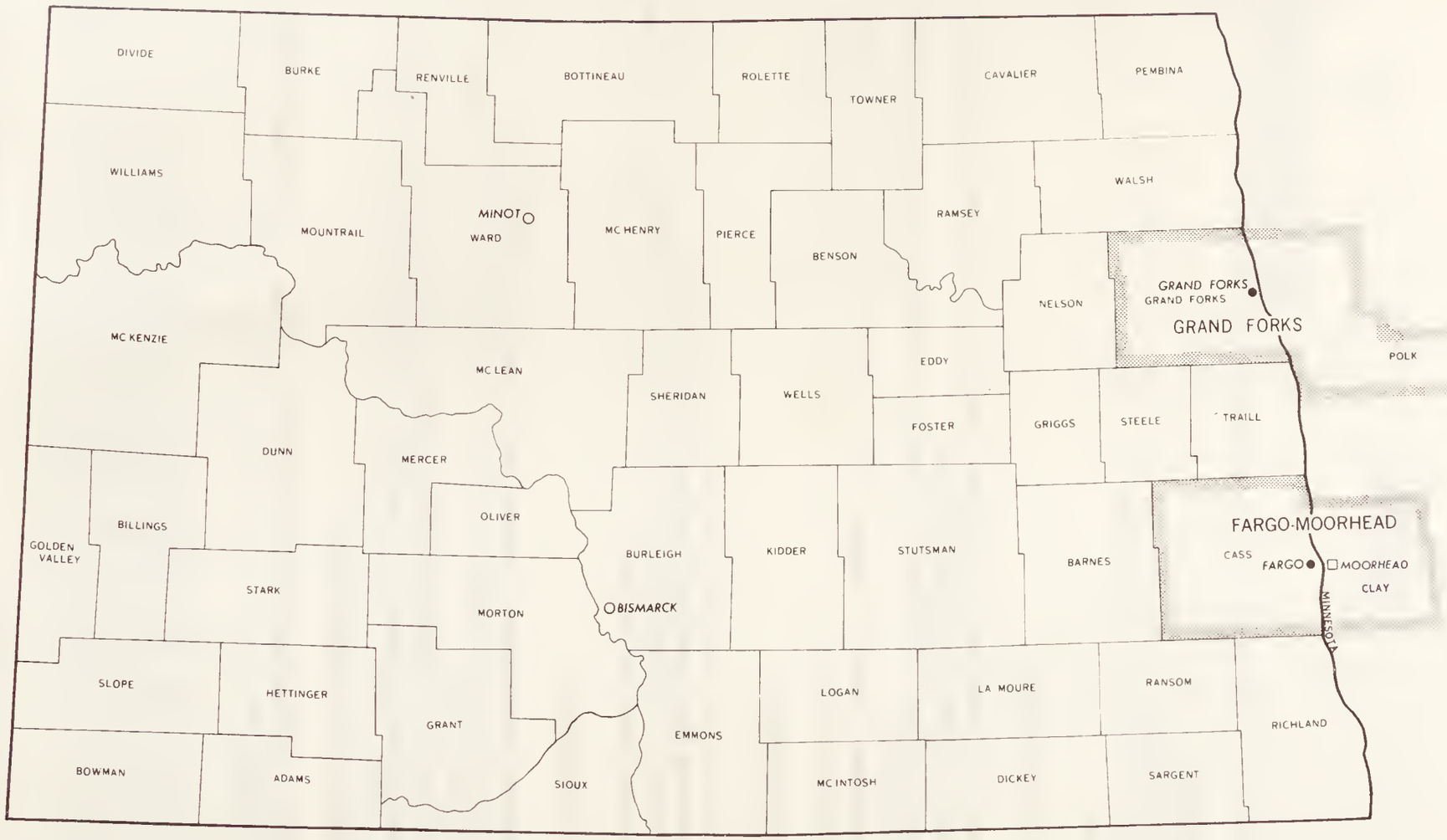
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NORTH DAKOTA

LEGEND

- ● Places of 50,000 to 100,000 inhabitants
- □ Central cities of SMSA's with fewer than 50,000 inhabitants
- ○ Places of 25,000 to 50,000 inhabitants outside SMSA's

Standard Metropolitan Statistical Areas (SMSA's)

SCALE

0 10 20 30 40 50 MILES

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 13.8 thousand persons were employed in North Dakota's manufacturing establishments. This figure represented an increase of 35 percent from the 1972 figure of 10.2 thousand workers.

The total value added by manufacture for the State amounted to $473 million in 1977, an increase of approximately 135 percent from the 1972 figure of $201 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were machinery, except electrical; food and kindred products; and printing and publishing. They accounted for approximately 64 percent of the State's 1977 employment. The order has shifted from 1972 when industry groups food and kindred products; machinery, except electrical; and printing and publishing accounted for approximately 68 percent of the State's employment.

The most important counties in the State ranked by employment were Cass, Burleigh, and Grand Forks. They accounted for approximately 47 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Cass, Grand Forks, and Burleigh accounted for approximately 46 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 5 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
North Dakota:						
1977	13.8	162.3	(D)	(D)	(D)	(D)
1972	10.2	78.6	(D)	(D)	(D)	(D)
1967	7.5	41.6	(D)	(D)	(D)	(D)
1963	6.5	31.5	(D)	(D)	(D)	(D)
STANDARD METROPOLITAN STATISTICAL AREA						
Grand Forks, N. Dak.-Minn.:						
1977	2.5	31.4	2.5	31.4	-	-
1972	2.5	18.0	(NA)	(NA)	(NA)	(NA)
Fargo-Moorhead, N. Dak.-Minn.:						
1977	5.1	63.9	5.1	63.9	-	-
1972	3.5	27.9	3.5	27.7	(Z)	.2
1967	2.5	16.4	2.5	16.4	-	-
1963	2.3	11.7	2.3	11.7	-	-

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
	NORTH DAKOTA														
1977 CENSUS.	571	145	13.8	162.3	9.2	17.7	97.2	473.3	842.7	1 312.9	53.0	.07	100	100	19 596.9
1976 ASM....	(NA)	(NA)	14.2	139.4	8.8	16.4	78.7	387.0	864.1	1 236.2	54.9	.08	103	96	18 753.0
1975 ASM....	(NA)	(NA)	14.1	119.6	9.2	16.8	74.3	323.7	809.3	1 128.3	23.2	.08	102	94	18 302.2
1974 ASM....	(NA)	(NA)	12.3	106.0	8.4	16.8	68.7	325.9	669.7	982.1	27.8	.06	89	102	19 844.8
1973 ASM....	(NA)	(NA)	11.9	96.2	9.0	18.2	62.5	330.1	428.1	773.2	23.8	.06	86	102	19 897.9
1972 CENSUS.	482	117	10.2	78.6	7.1	14.4	47.7	200.7	379.3	593.9	13.3	.05	74	98	19 028.7
1971 ASM....	(NA)	(NA)	10.1	70.3	6.9	14.5	42.9	189.0	349.8	536.1	11.3	.06	73	94	18 363.1
1970 ASM....	(NA)	(NA)	10.3	73.5	7.3	14.8	46.1	188.8	310.3	494.3	10.1	.05	74	99	19 217.2
1969 ASM....	(NA)	(NA)	8.3	50.4	5.6	11.4	32.9	144.5	268.1	408.4	13.6	.04	60	103	20 035.5
1968 ASM....	(NA)	(NA)	7.9	46.0	5.5	10.0	28.7	143.9	266.5	409.3	6.1	.04	57	100	19 527.6
1967 CENSUS.	456	92	7.5	41.6	5.2	10.7	26.1	112.8	255.5	365.4	6.3	.04	54	99	19 323.2
1966 ASM....	(NA)	(NA)	6.7	37.2	4.5	9.3	21.0	100.9	221.2	318.8	7.1	.04	48	98	19 024.5
1965 ASM....	(NA)	(NA)	6.5	34.0	4.5	9.2	21.0	97.3	204.5	294.2	11.2	.04	47	92	18 010.2
1964 ASM....	(NA)	(NA)	6.5	31.7	4.5	9.0	19.8	71.6	195.8	267.1	17.0	.04	47	89	17 268.5
1963 CENSUS.	459	78	6.5	31.5	4.5	9.1	19.8	72.4	(NA)	(NA)	8.1	.04	47	87	16 958.4

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	NORTH DAKOTA								
1977 CENSUS.....	11 728	67	1 917	5.48	64	77	34 201	34	26.70
1976 ASM.....	9 817	62	1 864	4.80	70	81	27 254	36	23.60
1975 ASM.....	8 482	65	1 826	4.42	72	82	22 957	37	19.27
1974 ASM.....	8 618	68	2 000	4.09	68	79	26 496	33	19.40
1973 ASM.....	8 084	76	2 022	3.43	55	68	27 739	29	18.14
1972 CENSUS.....	7 706	70	2 028	3.31	64	77	19 676	39	13.94
1971 ASM.....	6 960	68	2 101	2.96	65	78	18 713	37	13.03
1970 ASM.....	7 136	71	2 027	3.11	63	78	18 330	39	12.76
1969 ASM.....	6 072	67	2 036	2.89	66	78	17 410	35	12.68
1968 ASM.....	5 823	70	1 818	2.87	65	76	18 215	32	14.39
1967 CENSUS.....	5 547	69	2 058	2.44	70	81	15 040	37	10.54
1966 ASM.....	5 552	67	2 067	2.26	69	81	15 060	37	10.85
1965 ASM.....	5 231	69	2 044	2.28	70	81	14 969	35	10.58
1964 ASM.....	4 877	69	2 000	2.20	73	85	11 015	44	7.96
1963 CENSUS.....	4 846	69	2 022	2.18	(NA)	(NA)	11 138	44	7.96

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	571	482
With 1 to 19 employees	do	426	365
With 20 to 99 employees	do	114	92
With 100 employees or more	do	31	25
All employees, average for year[1]	1,000	13.8	10.2
Payroll for year, all employees[1]	mil. dollars	162.3	78.6
Production workers:			
Average for year	1,000	9.2	7.1
March	do	9.0	6.9
May	do	9.0	7.0
August	do	9.2	6.9
November	do	9.8	7.5
Hours	millions	17.7	14.4
January to March	do	4.3	3.4
April to June	do	4.3	3.6
July to September	do	4.4	3.6
October to December	do	4.7	3.8
Wages	mil. dollars	97.2	47.7
Cost of materials, etc.[2]	do	842.7	379.3
Materials, parts, containers, etc., consumed	do	775.5	353.5
Resales	do	38.9	17.7
Fuels consumed	do	14.6	4.3
Purchased electric energy	do	9.5	2.7
Contract work	do	4.1	1.1
Value of shipments, including resales[2]	do	1 312.9	593.9
Value of resales	do	38.7	21.2
Value added by manufacture	do	473.3	200.7
Manufacturers' inventories:			
Beginning of year	do	175.7	74.8
Finished products	do	70.1	37.1
Work in process	do	29.8	21.2
Materials, supplies, fuel, etc.	do	75.8	16.6
End of year	do	193.4	65.2
Finished products	do	69.8	31.9
Work in process	do	33.2	12.7
Materials, supplies, fuel, etc.	do	90.4	20.6
Capital expenditures for plant and equipment	do	54.7	14.0
New capital expenditures	do	53.0	13.3
New buildings and other structures	do	14.8	2.9
New machinery and equipment	do	38.2	10.4
Used capital expenditures	do	1.8	0.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	343.3	6
New capital expenditures	52.5	9
Used capital expenditures	(2.6)	34
Retirements	6.2	11
End of year	392.1	5
Buildings and other structures:		
Beginning of year	98.8	8
New capital expenditures	(14.8)	16
Used capital expenditures	(1.1)	65
Retirements	(1.0)	15
End of year	113.7	7
Machinery and equipment:		
Beginning of year	244.5	5
New capital expenditures	37.7	10
Automobiles, trucks, etc., for highway use	5.2	(NA)
Computers and peripheral data processing equip.	0.6	(NA)
All other	29.0	(NA)
New machinery and equipment, n.s.k.	2.8	(NA)
Used capital expenditures	(1.4)	23
Retirements	5.2	11
End of year	278.5	4
Rental payments:		
Total	5.0	11
Buildings and other structures	(2.9)	19
Machinery and equipment	2.1	13
Depreciation charges during 1977:		
Total	25.5	6
Buildings and other structures	(6.7)	15
Machinery and equipment	18.8	5
Supplemental labor costs:		
Total	28.1	2
Legal costs	13.4	4
Voluntary costs	14.7	3
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	(1.8)	15
Response coverage ratio (percent)	67	(X)
Machinery	(5.6)	66
Response coverage ratio (percent)	63	(X)
Cost of purchased communication services	(3.0)	24
Response coverage ratio (percent)	65	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
North Dakota	-	**571**	**145**	**13.8**	**162.3**	**9.2**	**17.7**	**97.2**	**473.3**	**842.7**	**1 312.9**	**53.0**	**10.2**	**200.7**
STANDARD METROPOLITAN STATISTICAL AREAS														
Fargo-Moorhead, N. Dak.-Minn.	-	143	45	5.1	63.9	3.5	6.9	39.6	125.8	278.9	404.5	25.8	3.5	61.3
Portion in Minnesota	-	39	8	1.3	17.0	0.8	1.7	10.1	30.3	56.5	85.8	(D)	1.2	22.1
Portion in North Dakota	-	104	37	3.8	46.9	2.7	5.2	29.6	95.5	222.5	318.7	(D)	2.3	39.1
Grand Forks, N. Dak.-Minn.	-	93	24	2.5	31.4	1.8	3.8	21.6	88.6	156.1	235.0	7.9	2.5	38.1
Portion in Minnesota	-	46	10	1.3	17.3	1.1	2.4	13.6	43.5	95.0	130.5	(D)	1.1	18.9
Portion in North Dakota	-	47	14	1.2	14.0	0.8	1.5	8.0	45.0	61.1	104.6	(D)	1.4	19.2
COUNTIES														
Adams	E9	8	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.8
Barnes	-	9	2	0.1	1.1	0.1	0.1	0.6	2.6	1.6	4.1	0.1	0.1	1.4
Benson	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bottineau	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.6
Bowman	E6	5	-	(Z)	0.3	(Z)	(Z)	0.1	0.4	0.6	1.0	(Z)	(D)	(D)
Burke	E1	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Burleigh	-	49	12	1.5	16.9	0.8	1.6	8.3	38.3	34.6	71.8	2.1	1.0	12.6
Cass	-	104	37	3.8	46.9	2.7	5.2	29.6	95.5	222.5	318.7	(D)	2.3	39.1
Cavalier	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dickey	E9	7	2	0.1	0.7	(Z)	(Z)	0.3	1.0	1.5	2.5	0.1	(D)	(D)
Divide	E0	4	-	(Z)	0.2	(Z)	(Z)	0.1	0.4	0.7	1.0	(Z)	(Z)	(NA)
Dunn	E5	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Eddy	E8	4	-	(Z)	(Z)	(Z)	(Z)	(Z)	0.2	0.1	0.3	(Z)	(D)	(D)
Emmons	E1	5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Foster	-	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Golden Valley	-	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grand Forks	-	47	14	1.2	14.0	0.8	1.5	8.0	45.0	61.1	104.6	(D)	1.4	19.2
Grant	E6	3	-	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	0.1	0.2	(D)	(D)	(D)
Griggs	E2	8	1	0.1	1.0	0.1	0.1	0.7	2.2	2.7	5.7	0.1	(Z)	(NA)
Hettinger	E7	6	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kidder	-	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
La Moure	E1	5	1	0.1	0.6	(Z)	(Z)	0.2	1.4	3.9	5.2	(D)	(D)	(D)
Logan	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
McHenry	-	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
McIntosh	E1	8	1	0.1	0.5	(Z)	0.1	0.3	0.8	1.6	2.4	(D)	(Z)	(NA)
McKenzie	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
McLean	E5	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Mercer	E1	6	-	(Z)	0.3	(Z)	(Z)	0.2	0.9	4.0	4.9	0.1	(Z)	(NA)
Morton	-	22	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mountrail	E2	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nelson	E9	5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pembina	-	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pierce	E7	7	2	0.1	0.9	0.1	0.1	0.6	2.5	7.9	10.5	0.2	0.1	1.4
Ramsey	E2	12	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.8
Ransom	E0	3	-	(Z)	0.1	(Z)	(Z)	(Z)	0.2	0.1	0.3	(Z)	(Z)	(NA)
Renville	E0	3	-	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	0.1	0.2	(D)	(Z)	(NA)
Richland	-	19	10	0.8	9.8	0.7	1.3	7.3	22.6	31.0	55.2	(D)	0.3	3.2
Rolette	E1	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sargent	-	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sheridan	E5	4	-	(Z)	0.1	(Z)	(Z)	0.1	(Z)	0.6	0.6	(D)	(D)	(D)
Sioux	-	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Stark	-	24	8	0.5	5.2	0.4	0.7	3.4	9.8	20.1	30.6	(D)	0.4	4.4
Steele	E0	4	-	(Z)	0.2	(Z)	(Z)	0.1	0.3	0.3	0.7	(Z)	(D)	(D)
Stutsman	-	22	8	0.8	9.0	0.5	1.0	4.4	30.8	29.2	57.6	(D)	0.6	8.2
Towner	E4	5	-	(Z)	0.2	(Z)	(Z)	0.1	0.2	0.4	0.6	(D)	(Z)	(NA)
Traill	-	10	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Walsh	-	11	2	0.1	1.2	0.1	0.2	0.9	3.4	3.4	6.8	0.1	0.2	2.2
Ward	-	42	10	0.8	8.6	0.4	0.8	4.3	19.3	18.7	38.1	1.5	0.6	10.0
Wells	E3	4	-	(Z)	0.3	(Z)	(Z)	0.2	0.9	0.5	1.4	(Z)	(D)	(D)
Williams	-	23	8	0.4	4.5	0.3	0.5	3.0	12.4	33.8	45.5	1.6	0.3	5.3
CITIES														
Bismarck	-	49	12	1.5	16.9	0.8	1.6	8.3	38.3	34.6	71.8	2.1	1.0	12.6
Fargo	-	66	26	3.0	37.1	2.1	4.1	23.0	72.3	129.4	202.5	(D)	1.7	31.0
Grand Forks	-	37	12	1.1	13.1	0.7	1.4	7.3	41.3	57.0	96.8	(D)	1.4	18.8
Jamestown	-	19	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Minot	-	36	10	0.7	8.4	0.4	0.8	4.1	18.8	18.2	37.0	1.4	0.5	8.9
Wahpeton	-	13	10	0.8	9.4	0.6	1.3	7.1	22.0	29.0	52.6	(D)	(NA)	(NA)
West Fargo	-	21	7	0.5	7.1	0.4	0.8	4.7	17.5	80.0	97.3	0.5	(NA)	(NA)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	**571**	**145**	**13.8**	**162.3**	**9.2**	**17.7**	**97.2**	**473.3**	**842.7**	**1 312.9**	**53.0**	**10.2**	**200.7**
20	**Food and kindred products**	-	**125**	**46**	**3.9**	**44.8**	**2.5**	**5.1**	**27.1**	**146.8**	**372.7**	**514.5**	**30.8**	**3.8**	**68.9**
201	Meat products	-	15	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	5.4
2011	Meat packing plants	-	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
202	Dairy products	E1	44	17	1.0	11.1	0.6	1.1	5.5	29.3	121.0	149.7	2.0	1.0	16.7
2022	Cheese, natural and processed	E1	14	6	0.3	2.2	0.2	0.4	1.6	9.8	46.5	55.8	0.5	0.3	5.1
2026	Fluid milk	-	16	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	10.7
203	Preserved fruits and vegetables	-	8	5	0.5	5.0	0.4	0.9	3.7	18.6	20.6	40.5	1.0	CC	(D)
2034	Dehydrated fruits, vegetables, and soups	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2037	Frozen fruits and vegetables	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
204	Grain mill products	-	16	5	0.4	4.1	0.2	0.4	2.2	16.9	43.3	57.2	(D)	0.3	5.6
2048	Prepared feeds, n.e.c.	E1	13	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
205	Bakery products	-	19	5	0.6	6.5	0.3	0.5	2.9	16.8	7.6	24.4	(D)	CC	(D)
2051	Bread, cake, and related products	-	19	5	0.6	6.5	0.3	0.5	2.9	16.8	7.6	24.4	(D)	CC	(D)
206	Sugar and confectionery products	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2063	Beet sugar	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
208	Beverages	-	8	6	0.3	3.4	0.1	0.2	1.0	15.8	18.7	33.0	(D)	0.3	3.7
2086	Bottled and canned soft drinks	-	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.7
209	Miscellaneous foods and kindred products	-	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2099	Food preparations, n.e.c.	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
23	**Apparel and other textile products**	-	**15**	**3**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(NA)**	**(NA)**
239	Miscellaneous fabricated textile products	-	11	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2394	Canvas and related products	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
24	**Lumber and wood products**	E1	**27**	**5**	**0.4**	**4.0**	**0.3**	**0.5**	**2.4**	**6.8**	**12.4**	**18.9**	**0.3**	**0.4**	**5.2**
243	Millwork, plywood, and structural members	-	18	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
27	**Printing and publishing**	E2	**137**	**24**	**1.7**	**18.2**	**1.0**	**1.7**	**9.8**	**35.7**	**15.0**	**50.7**	**2.6**	**1.5**	**20.0**
2711	Newspapers	E1	81	12	1.2	12.7	0.6	1.1	6.3	25.7	8.7	34.4	1.9	1.0	14.8
275	Commercial printing	E3	44	10	0.5	4.8	0.3	0.6	3.1	8.4	5.4	13.8	0.5	0.5	4.6
2752	Commercial printing, lithographic	E1	20	9	0.3	3.6	0.2	0.4	2.2	5.8	3.6	9.4	0.4	0.4	2.7
28	**Chemicals and allied products**	-	**7**	**2**	**0.2**	**2.8**	**0.2**	**0.5**	**2.2**	**4.9**	**7.5**	**12.4**	**(D)**	**AA**	**(D)**
286	Industrial organic chemicals	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2861	Gum and wood chemicals	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
29	**Petroleum and coal products**	-	**4**	**2**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**BB**	**(D)**
2911	Petroleum refining	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
32	**Stone, clay, and glass products**	-	**73**	**15**	**1.1**	**13.6**	**0.9**	**1.6**	**10.0**	**29.5**	**29.4**	**58.7**	**2.8**	**1.0**	**20.4**
327	Concrete, gypsum, and plaster products	-	61	13	0.8	10.3	0.6	1.2	7.0	23.9	22.5	46.2	2.4	CC	(D)
3272	Concrete products, n.e.c.	-	12	5	0.3	3.4	0.2	0.4	2.0	7.1	4.8	11.9	0.8	0.2	2.7
3273	Ready-mixed concrete	E1	43	8	0.5	6.3	0.4	0.8	4.7	15.0	16.3	31.1	1.5	0.4	5.9
34	**Fabricated metal products**	E1	**23**	**4**	**0.4**	**4.8**	**0.3**	**0.6**	**2.9**	**8.9**	**13.2**	**22.2**	**0.7**	**BB**	**(D)**
344	Fabricated structural metal products	-	18	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3441	Fabricated structural metal	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
35	**Machinery, except electrical**	-	**92**	**25**	**3.9**	**49.9**	**2.5**	**4.7**	**28.1**	**105.9**	**143.2**	**254.4**	**5.0**	**1.8**	**39.6**
352	Farm and garden machinery	-	36	13	2.4	31.8	1.6	3.1	18.4	62.7	102.6	169.1	3.8	CC	(D)
3523	Farm machinery and equipment	-	35	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
353	Construction and related machinery	-	11	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3531	Construction machinery	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
37	**Transportation equipment**	-	11	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
371	Motor vehicles and equipment	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3711	Motor vehicles and car bodies	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
372	Aircraft and parts	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3728	Aircraft equipment, n.e.c.	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
39	**Miscellaneous manufacturing industries**	-	**25**	**6**	**0.5**	**4.2**	**0.3**	**0.7**	**2.8**	**8.6**	**3.9**	**12.4**	**(D)**	**0.3**	**2.8**
399	Miscellaneous manufactures	-	18	4	0.2	2.3	0.2	0.3	1.4	5.2	2.8	7.8	(D)	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Fargo-Moorhead, N. Dak.-Minn., SMSA	-	**143**	**45**	**5.1**	**63.9**	**3.5**	**6.9**	**39.6**	**125.8**	**278.9**	**404.5**	**25.8**	**3.5**	**61.3**
20	Food and kindred products	-	20	10	1.4	16.1	0.9	2.0	11.0	40.6	148.6	186.7	20.6	1.1	22.5
27	Printing and publishing	E1	29	5	0.6	6.2	0.4	0.7	4.2	12.5	6.1	18.6	0.7	0.5	6.9
2711	Newspapers	-	7	1	0.3	3.3	0.2	0.3	2.3	8.0	2.6	10.5	(D)	(NA)	(NA)
34	Fabricated metal products	E1	13	2	0.3	3.8	0.2	0.4	2.1	6.9	11.0	18.2	0.7	(NA)	(NA)
35	Machinery, except electrical	-	27	12	1.7	22.5	1.1	2.2	13.6	40.1	82.4	124.8	2.4	0.5	9.7
352	Farm and garden machinery	-	8	6	1.4	18.5	0.9	1.8	11.0	31.5	75.0	108.9	2.0	0.3	6.2
3523	Farm machinery and equipment	-	8	6	1.4	18.5	0.9	1.8	11.0	31.5	75.0	108.9	2.0	0.3	6.2
	Grand Forks, N. Dak.-Minn., SMSA	-	**93**	**24**	**2.5**	**31.4**	**1.8**	**3.8**	**21.6**	**88.6**	**156.1**	**235.0**	**7.9**	**2.5**	**38.1**
20	Food and kindred products	-	27	15	1.8	22.8	1.4	3.0	17.0	72.6	140.4	203.5	6.2	(NA)	(NA)
203	Preserved fruits and vegetables	-	6	3	0.6	6.1	0.5	0.8	4.6	15.8	23.4	40.4	(D)	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Burleigh County	-	49	12	1.5	16.9	0.8	1.6	8.3	38.3	34.6	71.8	2.1	1.0	12.6
	Cass County	-	104	37	3.8	46.9	2.7	5.2	29.6	95.5	222.5	318.7	(D)	2.3	39.1
27	Printing and publishing	E1	20	5	0.5	5.8	0.3	0.6	3.9	11.8	5.4	17.2	(D)	0.5	6.5
	Grand Forks County	-	47	14	1.2	14.0	0.8	1.5	8.0	45.0	61.1	104.6	(D)	1.4	19.2
	Richland County	-	19	10	0.8	9.8	0.7	1.3	7.3	22.6	31.0	55.2	(D)	0.3	3.2
	Stark County	-	24	8	0.5	5.2	0.4	0.7	3.4	9.8	20.1	30.6	(D)	0.4	4.4
	Stutsman County	-	22	8	0.8	9.0	0.5	1.0	4.4	30.8	29.2	57.6	(D)	0.6	8.2
	Ward County	-	42	10	0.8	8.6	0.4	0.8	4.3	19.3	18.7	38.1	1.5	0.6	10.0

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Bismarck	-	49	12	1.5	16.9	0.8	1.6	8.3	38.3	34.6	71.8	2.1	1.0	12.6
	Fargo	-	66	26	3.0	37.1	2.1	4.1	23.0	72.3	129.4	202.5	(D)	1.7	31.0
20	Food and kindred products	-	6	4	0.5	4.8	0.3	0.7	2.9	12.5	32.3	43.4	4.0	(NA)	(NA)
27	Printing and publishing	E1	14	5	0.5	5.3	0.3	0.6	3.6	10.3	4.7	15.0	0.6	(NA)	(NA)
35	Machinery, except electrical	-	12	6	1.4	19.1	0.9	1.9	11.5	32.4	74.3	108.8	2.1	(NA)	(NA)
	Grand Forks	-	37	12	1.1	13.1	0.7	1.4	7.3	41.3	57.0	96.8	(D)	1.4	18.8
20	Food and kindred products	-	9	6	0.7	7.4	0.4	0.9	4.5	31.6	49.1	79.2	1.3	(NA)	(NA)
	Minot	-	36	10	0.7	8.4	0.4	0.8	4.1	18.8	18.2	37.0	1.4	0.5	8.9
	Wahpeton	-	13	10	0.8	9.4	0.6	1.3	7.1	22.0	29.0	52.6	(D)	(NA)	(NA)
	West Fargo	-	21	7	0.5	7.1	0.4	0.8	4.7	17.5	80.0	97.3	0.5	(NA)	(NA)

Note: "City" level inciudes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NORTH DAKOTA	571	125	-	-	15	27	7	6	137	7	4	6	-	73	2	23	92	5	11	3	25	3
1 TO 4 EMPLOYEES	265	41	-	-	9	14	2	-	87	3	2	3	-	33	-	10	41	2	3	1	13	1
5 TO 9 EMPLOYEES	91	21	-	-	3	1	3	3	17	1	-	-	-	14	-	5	15	1	4	1	2	-
10 TO 19 EMPLOYEES	70	17	-	-	-	7	1	1	9	1	-	1	-	11	-	4	11	1	1	1	4	-
20 TO 49 EMPLOYEES	82	22	-	-	1	3	-	2	16	1	1	1	-	11	1	2	15	-	1	-	3	2
50 TO 99 EMPLOYEES	32	13	-	-	1	1	1	-	4	-	-	1	-	2	1	1	4	1	-	-	2	-
100 TO 249 EMPLOYEES	26	11	-	-	1	1	-	-	3	1	1	-	-	2	-	1	3	-	1	-	1	-
250 TO 499 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
500 TO 999 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
ADAMS COUNTY	8	3	-	-	-	-	-	-	1	-	-	-	-	1	-	-	3	-	-	-	-	-
1 TO 19 EMPLOYEES	8	3	-	-	-	-	-	-	1	-	-	-	-	1	-	-	3	-	-	-	-	-
BARNES COUNTY	9	-	-	-	-	-	1	1	3	-	-	-	-	2	-	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES	7	-	-	-	-	-	-	1	2	-	-	-	-	2	-	-	1	-	-	-	1	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
BENSON COUNTY	6	-	-	-	1	1	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BOTTINEAU COUNTY	5	2	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
BOWMAN COUNTY	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	1
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	1
BURKE COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
BURLEIGH COUNTY	49	11	-	-	2	8	1	-	8	3	-	-	-	6	-	2	2	1	2	-	3	-
1 TO 19 EMPLOYEES	37	7	-	-	2	8	1	-	6	3	-	-	-	2	-	2	1	1	2	-	2	-
20 TO 99 EMPLOYEES	9	3	-	-	-	-	-	-	1	-	-	-	-	4	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
CASS COUNTY	104	13	-	-	5	6	2	3	20	-	1	1	-	6	2	12	23	1	3	1	5	-
1 TO 19 EMPLOYEES	67	6	-	-	4	4	2	2	15	-	1	-	-	4	-	10	12	1	2	1	3	-
20 TO 99 EMPLOYEES	29	3	-	-	1	2	-	1	4	-	-	1	-	2	2	1	9	-	1	-	2	-
100 TO 249 EMPLOYEES	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
CAVALIER COUNTY	5	1	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
OICKEY COUNTY	7	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	2	-	-	-	-	1
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
DIVIOE COUNTY	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
OUNN COUNTY	2	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
EODY COUNTY	4	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	1	-	-	-	-	-
EMMONS COUNTY	5	3	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	3	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
FOSTER COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
GOLOEN VALLEY COUNTY	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
GRANO FORKS COUNTY	47	10	-	-	4	2	1	1	8	-	-	1	-	7	-	-	8	-	-	-	5	-
1 TO 19 EMPLOYEES	33	3	-	-	4	2	1	1	5	-	-	1	-	4	-	-	7	-	-	-	5	-
20 TO 99 EMPLOYEES	10	5	-	-	-	-	-	-	2	-	-	-	-	2	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	4	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
GRANT COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
GRIGGS COUNTY	8	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	2	-	1	-	-	-
1 TO 19 EMPLOYEES	7	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
HETTINGER COUNTY	6	3	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	6	3	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
KIDDER COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
LA MOURE COUNTY	5	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOGAN COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
MC HENRY COUNTY	7	4	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC INTOSH COUNTY	8	2	-	-	-	-	-	-	3	-	-	-	-	1	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	-	-	-	3	-	-	-	-	1	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC KENZIE COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
MC LEAN COUNTY	8	1	-	-	-	-	-	-	5	-	-	-	-	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	-	-	-	4	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
MERCER COUNTY	6	2	-	-	-	1	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	6	2	-	-	-	1	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
MORTON COUNTY	22	6	-	-	-	2	-	-	6	-	1	-	-	3	-	1	2	-	-	-	1	-
1 TO 19 EMPLOYEES	14	4	-	-	-	1	-	-	4	-	-	-	-	2	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	6	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
MOUNTRAIL COUNTY	4	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
NELSON COUNTY	5	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
PEMBINA COUNTY	9	2	-	-	-	-	-	-	3	-	-	-	-	-	-	-	1	1	1	1	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	-	-	-	3	-	-	-	-	-	-	-	1	1	-	1	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
PIERCE COUNTY	7	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	3	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
RAMSEY COUNTY	12	1	-	-	-	-	-	-	4	-	-	1	-	4	-	1	-	-	1	-	-	-
1 TO 19 EMPLOYEES	11	1	-	-	-	-	-	-	3	-	-	1	-	4	-	1	-	-	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RANSOM COUNTY	3	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RENVILLE COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
RICHLAND COUNTY	19	3	-	-	1	-	-	-	6	-	-	-	-	2	-	4	3	-	-	-	-	-
1 TO 19 EMPLOYEES	9	2	-	-	-	-	-	-	3	-	-	-	-	1	-	2	1	-	-	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	1	-	-	-	3	-	-	-	-	1	-	2	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
ROLETTE COUNTY	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
SARGENT COUNTY	7	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
SHERIDAN COUNTY	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-
SIOUX COUNTY	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STARK COUNTY	24	6	-	-	-	1	2	1	4	1	1	-	-	2	-	-	3	-	-	-	3	-
1 TO 19 EMPLOYEES	16	3	-	-	-	-	2	-	3	-	1	-	-	2	-	-	2	-	-	-	3	-
20 TO 99 EMPLOYEES	7	3	-	-	-	1	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
STEELE COUNTY	4	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
STUTSMAN COUNTY	22	5	-	-	-	-	-	-	5	-	-	-	-	3	-	1	4	-	1	1	1	1
1 TO 19 EMPLOYEES	14	2	-	-	-	-	-	-	4	-	-	-	-	3	-	1	3	-	-	1	-	-
20 TO 99 EMPLOYEES	6	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
TOWNER COUNTY	5	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
TRAILL COUNTY	10	4	-	-	-	1	-	-	1	2	-	-	-	-	-	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES	9	3	-	-	-	1	-	-	1	2	-	-	-	-	-	-	1	-	-	-	1	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WALSH COUNTY	11	2	-	-	-	-	-	-	3	-	-	-	-	2	-	-	4	-	-	-	-	-
1 TO 19 EMPLOYEES	9	-	-	-	-	-	-	-	3	-	-	-	-	2	-	-	4	-	-	-	-	-
20 TO 99 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WARD COUNTY	42	8	-	-	2	4	-	-	9	-	-	1	-	10	-	-	3	1	1	-	3	-
1 TO 19 EMPLOYEES	32	4	-	-	2	3	-	-	7	-	-	-	-	8	-	-	3	1	1	-	3	-
20 TO 99 EMPLOYEES	8	3	-	-	-	1	-	-	1	-	-	1	-	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
WELLS COUNTY	4	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	1	-	-	-	-	-
WILLIAMS COUNTY	23	7	-	-	-	1	-	-	3	1	1	-	-	5	-	-	5	-	-	-	-	-
1 TO 19 EMPLOYEES	15	5	-	-	-	1	-	-	2	-	-	-	-	4	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	8	2	-	-	-	-	-	-	1	1	1	-	-	1	-	-	2	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

Ohio

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OHIO



U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 1,331,2 thousand persons were employed in Ohio's manufacturing establishments. This figure represented a decrease of 1 percent from the 1972 figure of 1,346.3 thousand workers.

The total value added by manufacture for the State amounted to $43,055 million in 1977, an increase of approximately 58 percent from the 1972 figure of $27,171 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were machinery, except electrical; fabricated metal products, n.e.c.; transportation equipment; and primary metal industries. They accounted for approximately 50 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 49 percent of the State's employment.

The most important counties in the State ranked by employment were Cuyahoga, Hamilton, Montgomery, and Franklin. They accounted for approximately 45 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Cuyahoga, Hamilton, Montgomery, and Summit accounted for approximately 41 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 2 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Ohio:						
1977	1,331.2	20,356.0	1,249.5	18,753.7	81.7	1,602.3
1972	1 346.3	13,810.0	1,263.8	12,720.1	82.5	1,089.9
1967	1,397.0	10,523.1	1,334.9	9,898.5	62.1	624.6
1963	1,239.8	8,125.4	1,186.1	7,656.6	53.7	468.8
STANDARD CONSOLIDATED STATISTICAL AREAS						
Cincinnati-Hamilton, Ohio-Ky.-Ind.:						
1977	189.6	2,944.3	172.7	2,612.7	16.9	331.6
1972	185.5	1,926.8	170.0	1,718.9	15.5	207.9
Cleveland-Akron-Lorain:						
1977	388.7	6,278.6	355.0	5,606.5	33.7	672.1
1972	399.1	4,303.9	367.9	3,904.0	31.2	399.9
STANDARD METROPOLITAN STATISTICAL AREAS						
Akron:						
1977	83.5	1,305.4	73.7	1,136.2	9.8	169.2
1972	94.4	1,004.3	84.4	885.7	10.0	118.6
1967	101.1	807.0	92.2	724.6	8.8	82.4
1963	90.7	638.9	83.3	578.1	7.3	60.8
Canton:						
1977	57.2	856.4	54.5	825.2	2.7	31.2
1972	57.6	567.1	55.4	539.9	2.2	27.2
1967	62.5	452.9	59.4	423.8	3.1	29.1
1963	53.0	343.6	50.5	322.0	2.5	21.6
Cincinnati, Ohio-Ky.-Ind.:						
1977	160.2	2,435.8	146.2	2,170.6	14.0	265.2
1972	157.6	1,608.8	144.9	1,443.0	12.7	165.8
1967	166.8	1,258.7	155.6	1,150.5	11.2	108.2
1963	153.9	989.0	144.4	910.4	9.5	78.6
Cleveland:						
1977	265.4	4,262.8	242.1	3,770.8	23.3	492.0
1972	268.9	2,887.5	248.4	2,614.7	20.5	272.8
1967	306.8	2,411.4	288.2	2,216.7	18.6	194.7
1963	280.3	1,908.3	262.6	1,750.8	17.6	157.5
Columbus:						
1977	96.2	1,384.3	89.4	1,248.8	6.8	135.5
1972	102.4	970.3	96.7	898.8	5.7	71.5
1967	83.0	616.7	80.5	594.2	2.5	22.5
1963	80.2	510.7	78.2	494.1	2.0	16.5
Dayton:						
1977	106.5	1,748.3	99.7	1,614.6	6.8	133.7
1972	118.8	1,340.7	103.4	1,134.3	15.4	206.4
1967	126.2	1,022.6	123.6	997.6	2.6	25.0
1963	104.2	719.0	102.0	699.2	2.2	19.8
Hamilton-Middletown:						
1977	29.4	508.5	26.5	442.0	2.9	66.4
1972	28.5	318.0	25.7	276.0	2.8	42.0
1967	29.5	251.7	26.8	214.3	2.7	37.4
1963	26.2	195.1	(D)	(D)	(D)	(D)
Huntington-Ashland, W. Va.-Ky.-Ohio:						
1977	29.6	438.8	27.1	392.7	2.5	46.1
1972	25.7	254.4	24.2	237.5	1.5	16.9
1967	27.4	194.9	26.3	184.2	1.1	10.7
1963	23.6	145.7	(D)	(D)	(D)	(D)
Lima:						
1977	30.6	451.6	30.5	449.8	.1	1.8
1972	28.2	275.7	(D)	(D)	(D)	(D)
Lorain-Elyria:						
1977	39.8	710.5	39.2	699.6	.6	10.9
1972	36.1	412.1	35.4	403.6	.7	8.5
1967	33.8	263.1	33.1	256.5	.7	6.6
1963	29.8	214.1	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years—Con.

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
STANDARD METROPOLITAN STATISTICAL AREAS--Con.						
Mansfield:						
1977	20.9	311.7	20.8	309.9	.1	1.8
1972	22.6	225.8	(D)	(D)	(D)	(D)
1967	23.6	177.5	(D)	(D)	(D)	(D)
Parkersburg-Marietta, W. Va.-Ohio:						
1977	15.8	222.4	(D)	(D)	(D)	(D)
1972	18.0	173.0	(D)	(D)	(D)	(D)
Springfield:						
1977	18.3	245.0	18.3	244.3	(Z)	.7
1972	20.1	187.2	20.1	186.7	(Z)	.5
Steubenville-Weirton, Ohio-W. Va.:						
1977	26.7	497.6	26.5	494.7	.2	2.9
1972	29.0	329.3	27.8	313.2	1.2	16.4
1967	28.4	230.3	27.2	220.0	1.2	10.3
1963	28.6	206.0	(D)	(D)	(D)	(D)
Toledo, Ohio-Mich.:						
1977	92.7	1,504.2	83.4	1,315.8	9.3	188.4
1972	91.2	986.9	82.9	869.2	8.3	117.7
Wheeling, W. Va.-Ohio:						
1977	13.0	173.5	12.6	166.0	.4	7.5
1972	13.3	118.3	(D)	(D)	(D)	(D)
1967	16.3	106.6	15.6	100.4	.7	6.2
1963	15.6	92.9	(D)	(D)	(D)	(D)
Youngstown-Warren:						
1977	79.5	1,368.2	78.1	1,340.2	1.4	28.0
1972	86.6	952.8	85.5	924.1	1.1	27.7
1967	82.9	631.7	81.7	621.7	1.2	10.0
1963	69.4	479.2	68.0	467.9	1.4	11.3

(D) Withheld to avoid disclosing operations of individual companies. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1] Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
								OHIO							
1977 CENSUS.	17 354	6 728	1 331.2	20 356.0	924.4	1 838.5	12 907.5	43 054.7	52 736.3	95 234.7	2 790.7	6.79	100	100	19 596.9
1976 ASM....	(NA)	(NA)	1 283.0	17 855.4	888.7	1 752.7	11 235.4	37 724.5	46 482.0	83 715.9	2 140.5	6.84	96	96	18 753.0
1975 ASM....	(NA)	(NA)	1 269.7	15 967.9	864.4	1 674.7	9 821.3	32 292.2	40 994.6	73 488.3	2 160.5	6.94	95	94	18 302.2
1974 ASM....	(NA)	(NA)	1 428.2	16 575.8	1 001.6	1 981.8	10 538.1	35 088.7	40 770.2	74 484.5	2 523.6	7.20	107	102	19 844.8
1973 ASM....	(NA)	(NA)	1 418.5	15 509.5	1 010.1	2 047.1	10 056.2	31 174.3	33 497.1	64 021.5	1 939.3	7.13	107	102	19 897.9
1972 CENSUS.	16 390	6 487	1 346.3	13 810.0	940.0	1 887.8	8 717.0	27 171.0	28 285.6	55 025.4	1 695.4	7.08	101	98	19 028.7
1971 ASM....	(NA)	(NA)	1 331.5	12 512.9	922.3	1 819.3	7 796.1	23 991.7	25 920.7	50 142.4	1 310.2	7.25	100	94	18 363.1
1970 ASM....	(NA)	(NA)	1 407.0	12 289.1	982.9	1 951.0	7 723.3	23 141.0	24 220.8	47 149.8	1 705.7	7.32	106	99	19 217.2
1969 ASM....	(NA)	(NA)	1 468.9	12 419.4	1 048.1	2 142.2	8 019.8	24 192.6	25 275.0	49 054.5	1 975.1	7.33	110	103	20 035.5
1968 ASM....	(NA)	(NA)	1 430.8	11 455.7	1 018.7	2 076.7	7 371.6	22 151.1	23 748.7	45 747.5	1 756.9	7.33	107	100	19 527.6
1967 CENSUS.	15 428	6 487	1 397.0	10 523.6	998.1	2 014.5	6 745.4	20 435.4	21 589.5	41 845.3	1 694.1	7.23	105	99	19 323.2
1966 ASM....	(NA)	(NA)	1 411.1	10 376.1	1 016.5	2 116.7	6 807.8	20 132.1	22 034.1	41 644.9	1 585.8	7.42	106	98	19 024.5
1965 ASM....	(NA)	(NA)	1 333.8	9 437.3	962.1	1 993.9	6 193.1	18 358.8	20 158.0	38 280.0	1 332.0	7.41	100	92	18 010.2
1964 ASM....	(NA)	(NA)	1 260.1	8 579.1	902.2	1 857.0	5 582.9	16 477.0	18 350.5	34 594.8	1 085.0	7.30	95	89	17 268.5
1963 CENSUS.	15 484	5 800	1 239.8	8 125.4	885.1	1 799.1	5 257.2	1 550.6	(NA)	(NA)	847.8	.47	6	87	16 958.4
								CINCINNATI-HAMILTON, OHIO-KY.-IND., SCSA							
1977 CENSUS.	2 373	958	189.6	2 944.3	117.7	238.4	1 618.9	6 608.2	7 196.2	13 769.5	357.1	.97	100	100	19 596.9
1972 CENSUS.	2 258	949	186.1	1 926.8	117.7	240.4	1 057.8	4 145.4	3 648.6	7 763.0	233.6	.97	98	98	19 028.7
								CLEVELAND-AKRON-LORAIN SCSA							
1977 CENSUS.	5 877	2 184	388.7	6 278.6	256.4	520.3	3 744.5	11 966.8	14 173.4	25 950.7	793.7	1.98	100	100	19 596.9
1972 CENSUS.	5 656	2 114	399.1	4 303.9	262.6	534.0	2 567.9	7 925.5	8 119.9	15 911.8	480.6	2.10	103	98	19 028.7
								AKRON SMSA							
1977 CENSUS.	1 061	406	83.5	1 305.4	50.1	99.4	699.4	2 014.2	2 205.8	4 158.1	156.8	.43	100	100	19 596.9
1976 ASM....	(NA)	(NA)	81.9	1 117.4	47.6	88.3	551.7	1 769.9	2 222.3	4 079.1	107.5	.44	98	96	18 753.0
1975 ASM....	(NA)	(NA)	86.9	1 072.7	50.0	95.4	562.0	1 719.5	2 106.7	3 799.1	123.9	.47	104	94	18 302.2
1974 ASM....	(NA)	(NA)	96.4	1 155.8	57.3	114.1	623.8	2 057.4	2 225.8	4 162.9	120.4	.49	115	102	19 844.8
1973 ASM....	(NA)	(NA)	96.2	1 094.4	57.0	114.0	591.1	1 926.9	1 794.2	3 664.3	148.7	.48	115	102	19 897.9
1972 CENSUS.	989	389	94.4	1 004.3	55.6	111.9	545.7	1 686.2	1 553.9	3 230.7	109.9	.50	113	98	19 028.7
1971 ASM....	(NA)	(NA)	95.4	972.2	54.9	106.8	495.4	1 513.3	1 423.3	2 972.0	93.6	.52	114	94	18 363.1
1970 ASM....	(NA)	(NA)	101.8	931.0	60.8	118.2	500.4	1 484.1	1 547.5	2 998.4	122.8	.53	122	99	19 217.2
1969 ASM....	(NA)	(NA)	103.8	924.6	63.2	127.7	514.9	1 460.0	1 531.6	2 967.9	144.1	.52	124	103	20 035.5
1968 ASM....	(NA)	(NA)	104.7	882.9	63.3	127.2	489.6	1 426.5	1 486.0	2 882.2	110.7	.54	125	100	19 527.6
1967 CENSUS.	877	369	101.1	807.0	62.0	120.6	448.9	1 400.8	1 344.0	2 751.0	96.4	.52	121	99	19 323.2
1966 ASM....	(NA)	(NA)	97.1	757.6	59.5	122.7	438.0	1 240.3	1 378.7	2 582.1	101.1	.51	116	98	19 024.5
1965 ASM....	(NA)	(NA)	93.7	710.6	57.9	120.8	409.3	1 195.1	1 219.1	2 389.1	85.1	.52	112	92	18 010.2
1964 ASM....	(NA)	(NA)	90.8	662.7	56.5	116.1	378.3	1 095.6	1 120.7	2 192.2	70.6	.53	109	89	17 268.5
1963 CENSUS.	854	314	90.7	638.9	56.4	113.6	359.7	1 014.0	(NA)	(NA)	63.0	.53	109	87	16 958.4
								CANTON SMSA							
1977 CENSUS.	603	235	57.2	856.4	41.8	80.8	601.5	1 897.5	2 405.6	4 262.4	121.2	.29	100	100	19 596.9
1976 ASM....	(NA)	(NA)	57.0	803.1	41.2	78.6	533.6	1 576.1	2 151.3	3 738.0	98.9	.30	100	96	18 753.0
1975 ASM....	(NA)	(NA)	58.3	739.8	41.6	79.0	489.9	1 550.8	1 885.4	3 489.1	84.7	.32	102	94	18 302.2
1974 ASM....	(NA)	(NA)	67.2	786.1	49.6	96.8	544.8	1 633.8	1 952.5	3 500.2	92.6	.34	118	102	19 844.8
1973 ASM....	(NA)	(NA)	62.8	681.0	47.5	94.2	484.3	1 390.9	1 526.3	2 858.0	146.5	.32	110	102	19 897.9
1972 CENSUS.	574	220	57.6	567.1	43.0	83.1	391.9	1 151.6	1 206.7	2 354.7	138.8	.30	101	98	19 028.7
1971 ASM....	(NA)	(NA)	63.1	562.4	45.6	85.1	375.2	1 052.6	1 128.7	2 203.1	53.1	.34	110	94	18 363.1
1970 ASM....	(NA)	(NA)	66.6	569.4	49.6	93.9	385.0	1 037.6	1 139.4	2 154.4	94.6	.35	116	99	19 217.2
1969 ASM....	(NA)	(NA)	66.1	547.4	49.7	100.4	381.7	1 070.4	1 130.0	2 174.8	69.5	.33	115	103	20 035.5
1968 ASM....	(NA)	(NA)	64.0	484.6	47.8	93.5	332.1	1 016.4	994.5	2 008.4	75.6	.33	112	100	19 527.6
1967 CENSUS.	514	216	62.5	452.9	46.8	92.0	310.6	896.6	920.0	1 818.6	84.5	.32	109	99	19 323.2
1966 ASM....	(NA)	(NA)	63.1	461.2	47.2	96.4	321.2	904.2	951.8	1 832.2	72.1	.33	110	98	19 024.5
1965 ASM....	(NA)	(NA)	59.4	417.0	44.9	90.6	291.3	821.5	867.6	1 680.2	48.1	.33	104	92	18 010.2
1964 ASM....	(NA)	(NA)	55.3	378.4	41.7	85.2	264.2	699.9	790.0	1 475.3	33.8	.32	97	89	17 268.5
1963 CENSUS.	519	198	53.0	343.6	40.0	78.7	236.3	666.9	(NA)	(NA)	33.3	.31	93	87	16 958.4
								CINCINNATI, OHIO-KY.-INO., SMSA							
1977 CENSUS.	2 135	856	160.2	2 435.8	97.2	197.9	1 289.5	5 645.9	6 043.1	11 647.9	299.2	.82	100	100	19 596.9
1976 ASM....	(NA)	(NA)	156.7	2 205.1	94.0	190.9	1 153.5	4 986.1	5 691.3	10 632.6	232.2	.84	98	96	18 753.0
1975 ASM....	(NA)	(NA)	156.3	2 006.2	92.7	184.2	1 025.7	4 499.8	5 123.3	9 637.3	230.8	.85	98	94	18 302.2
1974 ASM....	(NA)	(NA)	173.8	2 060.6	107.8	218.1	1 076.1	4 527.9	4 794.6	9 169.1	268.8	.88	108	102	19 844.8
1973 ASM....	(NA)	(NA)	164.6	1 805.6	103.1	211.0	966.1	3 960.1	3 897.4	778.3	198.0	.83	103	102	19 897.9
1972 CENSUS.	2 045	855	157.6	1 608.8	97.5	197.6	848.9	3 561.2	3 060.9	6 601.2	199.3	.83	98	98	19 028.7
1971 ASM....	(NA)	(NA)	158.4	1 496.6	98.2	196.3	790.6	3 377.0	3 118.2	6 522.5	133.4	.86	99	94	18 363.1
1970 ASM....	(NA)	(NA)	167.9	1 473.0	104.7	208.4	774.8	3 200.2	3 061.4	6 200.0	172.3	.87	105	99	19 217.2
1969 ASM....	(NA)	(NA)	172.2	1 435.8	108.9	221.6	764.9	3 156.5	3 060.5	6 162.3	192.3	.86	107	103	20 035.5
1968 ASM....	(NA)	(NA)	170.4	1 354.4	108.0	221.4	728.4	2 962.5	2 886.6	5 843.6	163.1	.87	106	100	19 527.6
1967 CENSUS.	1 921	818	166.8	1 258.7	107.2	217.0	681.9	2 704.1	2 767.8	5 460.4	158.3	.86	104	99	19 323.2
1966 ASM....	(NA)	(NA)	164.0	1 195.3	106.2	225.1	675.3	2 567.7	2 706.9	5 225.4	148.1	.86	102	98	19 024.5
1965 ASM....	(NA)	(NA)	155.1	1 086.5	101.5	211.4	612.6	2 356.6	2 357.0	4 880.4	115.0	.86	97	92	18 010.2
1964 ASM....	(NA)	(NA)	149.8	998.0	97.9	204.7	568.0	2 168.4	2 272.9	4 432.9	93.9	.87	94	89	17 268.5
1963 CENSUS.	1 971	797	153.9	989.0	100.1	207.1	554.9	2 057.4	(NA)	(NA)	78.1	.91	96	87	16 958.4

See footnotes at end of table.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years – Con.

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers							Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
CLEVELAND SMSA															
1977 CENSUS.	4 475	1 654	265.4	4 262.8	175.9	357.3	2 524.1	8 105.9	8 600.4	16 599.6	543.1	1.35	100	100	19 596.9
1976 ASM....	(NA)	(NA)	265.8	3 811.6	174.2	351.6	229.7	7 347.4	7 576.0	14 839.9	395.0	1.41	100	96	18 753.0
1975 ASM....	(NA)	(NA)	270.2	3 467.3	173.2	337.5	1 956.6	6 180.9	6 780.0	13 028.2	399.7	1.48	102	94	18 302.2
1974 ASM....	(NA)	(NA)	297.4	3 538.2	196.8	395.3	2 085.8	6 788.8	6 983.4	13 436.2	506.9	1.50	112	102	19 844.8
1973 ASM....	(NA)	(NA)	284.1	3 213.9	194.9	400.0	1 982.3	5 937.2	5 694.2	11 495.1	326.8	1.43	107	102	19 897.9
1972 CENSUS.	4 359	1 617	268.9	2 887.5	179.6	364.8	1 729.2	5 220.9	4 896.2	10 009.2	284.9	1.41	101	98	19 028.7
1971 ASM....	(NA)	(NA)	272.1	2 660.7	178.3	351.2	1 548.7	4 577.9	4 985.7	9 573.5	221.8	1.48	103	94	18 363.1
1970 ASM....	(NA)	(NA)	296.9	2 679.7	194.9	385.9	1 565.1	4 591.6	4 652.4	9 218.5	325.1	1.54	112	99	19 217.2
1969 ASM....	(NA)	(NA)	316.1	2 776.5	215.8	441.1	1 710.9	4 989.4	5 082.5	10 013.8	423.7	1.58	119	103	20 035.5
1968 ASM....	(NA)	(NA)	311.2	2 601.5	212.1	439.5	1 603.2	4 619.7	4 830.8	9 426.5	376.4	1.59	117	100	19 527.6
1967 CENSUS.	4 168	1 662	306.8	2 411.4	209.9	428.3	1 471.5	4 297.0	4 293.6	8 522.7	331.0	1.59	116	99	19 323.2
1966 ASM....	4 168	1 662	307.4	2 397.9	212.2	452.2	1 495.3	4 416.7	4 518.1	8 810.6	282.9	1.62	116	98	19 024.5
1965 ASM....	4 168	1 662	294.2	2 191.3	204.2	430.6	1 370.0	4 009.5	4 337.8	8 283.0	260.0	1.63	111	92	18 010.2
1964 ASM....	4 168	1 662	285.8	2 029.2	195.8	405.4	1 243.3	3 538.1	3 961.8	7 473.2	228.1	1.66	108	89	17 268.5
1963 CENSUS.	14 175	1 517	280.3	1 908.3	194.2	397.6	1 176.4	3 378.8	(NA)	(NA)	176.9	1.65	106	87	16 958.4
COLUMBUS SMSA															
1977 CENSUS.	1 315	500	96.2	1 384.3	63.1	122.8	814.7	2 969.4	2 830.7	5 772.3	165.4	.49	100	100	19 596.9
1976 ASM....	(NA)	(NA)	88.8	1 174.8	58.8	113.9	691.2	2 584.3	2 514.2	5 049.1	148.8	.47	92	96	18 753.0
1975 ASM....	(NA)	(NA)	90.0	1 096.0	58.9	113.3	635.1	2 253.4	2 358.2	4 639.3	153.3	.49	94	94	18 302.2
1974 ASM....	(NA)	(NA)	99.0	1 089.6	67.2	128.4	666.4	2 375.5	2 279.7	4 563.7	140.0	.50	103	102	19 844.8
1973 ASM....	(NA)	(NA)	104.5	1 063.7	72.0	139.1	649.6	2 226.3	1 881.4	4 081.1	155.4	.53	109	102	19 897.9
1972 CENSUS.	1 199	497	102.4	970.3	69.1	135.0	580.7	1 989.2	1 606.0	3 559.7	103.5	.54	106	98	19 028.7
1971 ASM....	(NA)	(NA)	82.8	739.1	56.5	109.9	447.1	1 557.7	1 295.3	2 868.4	87.6	.45	86	94	18 363.1
1970 ASM....	(NA)	(NA)	88.0	749.2	61.2	121.8	464.5	1 441.8	1 291.9	2 802.1	120.4	.46	91	99	19 217.2
1969 ASM....	976	361	81.8	720.7	61.2	123.2	447.2	1 404.1	1 235.3	2 616.2	101.6	.40	83	103	20 035.5
1968 ASM....	(NA)	(NA)	86.0	674.8	58.6	118.0	407.5	1 228.1	1 151.2	2 373.0	103.6	.44	89	100	19 527.6
1967 CENSUS.	947	961	83.0	616.7	56.4	113.0	365.5	1 162.2	1 036.5	2 192.5	116.6	.43	86	99	19 323.2
1966 ASM....	(NA)	(NA)	87.2	620.9	59.1	119.4	374.6	1 195.9	1 056.9	2 229.4	83.5	.46	91	98	19 024.5
1965 ASM....	(NA)	(NA)	83.6	570.8	57.5	116.7	349.8	1 110.2	985.1	2 075.4	76.9	.46	87	92	18 010.2
1964 ASM....	(NA)	(NA)	79.2	524.8	53.5	109.2	319.8	1 023.4	904.0	1 912.1	53.7	.46	82	89	17 268.5
1963 CENSUS.	976	361	80.2	510.7	53.7	101.2	303.4	961.9	(NA)	(NA)	57.5	.47	83	87	16 958.4
DAYTON SMSA															
1977 CENSUS.	1 302	506	106.5	1 748.3	72.9	150.4	1 120.4	3 261.0	2 975.8	6 159.8	266.8	.54	100	100	19 596.9
1976 ASM....	(NA)	(NA)	99.7	1 495.0	69.0	139.6	965.3	2 774.2	2 498.6	5 209.0	156.5	.53	94	96	18 753.0
1975 ASM....	(NA)	(NA)	95.8	1 291.3	64.1	126.5	792.2	2 100.3	2 102.3	4 299.0	152.2	.52	90	94	18 302.2
1974 ASM....	(NA)	(NA)	112.2	1 351.1	76.8	151.9	854.1	2 437.2	2 163.2	4 514.2	177.9	.57	105	102	19 844.8
1973 ASM....	(NA)	(NA)	118.1	1 382.5	82.6	169.7	906.5	2 427.9	2 015.0	4 385.8	184.2	.59	111	102	19 897.9
1972 CENSUS.	1 149	450	118.8	1 340.7	78.6	160.1	815.8	2 152.9	1 751.5	3 892.6	107.9	.62	112	98	19 028.7
1971 ASM....	(NA)	(NA)	113.1	1 137.4	77.3	151.9	724.9	1 827.5	1 536.8	3 455.6	118.8	.62	106	94	18 363.1
1970 ASM....	(NA)	(NA)	125.0	1 191.3	88.5	178.2	789.1	2 026.6	1 446.4	3 426.9	131.0	.65	117	99	19 217.2
1969 ASM....	(NA)	(NA)	132.1	1 219.4	97.6	206.0	838.7	2 145.5	1 571.6	3 675.8	142.9	.66	124	103	20 035.5
1968 ASM....	(NA)	(NA)	124.7	1 085.4	92.3	191.6	743.5	1 855.8	1 431.0	3 281.9	128.6	.64	117	100	19 527.6
1967 CENSUS.	1 041	431	126.2	1 022.6	95.0	169.3	720.0	1 908.4	1 345.3	3 211.9	114.5	.65	118	99	19 323.2
1966 ASM....	(NA)	(NA)	1 122.6	978.7	92.9	200.5	689.8	1 745.7	1 342.4	3 025.5	119.2	6.43	1 148	98	19 024.5
1965 ASM....	(NA)	(NA)	116.1	879.5	87.8	187.6	624.2	1 580.7	1 027.3	2 764.8	114.3	.64	109	92	18 010.2
1964 ASM....	(NA)	(NA)	108.1	775.7	81.1	172.1	544.9	1 426.8	1 055.9	2 466.3	79.6	.63	101	89	17 268.5
1963 CENSUS.	1 054	393	104.2	719.0	78.2	163.2	503.2	1 318.3	(NA)	(NA)	59.8	.61	98	87	16 958.4
TOLEDO, OHIO-MICH., SMSA															
1977 CENSUS.	1 247	455	92.7	1 504.2	65.2	128.4	963.6	3 203.0	5 007.8	8 169.9	259.7	.47	100	100	19 596.9
1976 ASM....	(NA)	(NA)	85.5	1 287.6	61.0	122.0	839.9	2 903.2	4 149.4	7 008.3	158.2	.46	92	96	18 753.0
1975 ASM....	(NA)	(NA)	82.6	1 097.2	57.9	111.0	703.3	2 522.9	3 529.3	6 073.6	178.0	.45	89	94	18 302.2
1974 ASM....	(NA)	(NA)	92.0	1 127.9	63.7	125.4	721.6	2 325.5	3 292.6	5 551.3	258.5	.46	99	102	19 844.8
1973 ASM....	(NA)	(NA)	95.6	1 113.3	68.4	138.1	717.4	2 156.2	2 649.3	4 775.3	129.8	.48	103	102	19 897.9
1972 CENSUS.	1 195	453	91.2	986.9	64.0	128.9	625.6	1 878.9	2 250.3	4 103.2	193.1	.48	98	98	19 028.7
YOUNGSTOWN-WARREN SMSA															
1977 CENSUS.	620	258	79.5	1 368.2	62.8	120.4	1 026.7	2 620.2	3 996.0	6 612.1	131.0	.41	100	100	19 596.9
1976 ASM....	(NA)	(NA)	80.6	1 220.1	63.4	118.6	912.2	2 444.7	3 721.3	6 103.9	109.0	.43	101	96	18 753.0
1975 ASM....	(NA)	(NA)	77.2	1 072.9	60.9	113.2	797.6	2 123.5	3 482.1	5 570.8	101.1	.42	97	94	18 302.2
1974 ASM....	(NA)	(NA)	90.0	1 142.8	73.2	140.2	883.4	2 643.0	3 594.7	6 179.4	86.7	.45	113	102	19 844.8
1973 ASM....	(NA)	(NA)	92.3	1 112.2	74.9	152.7	866.6	2 146.2	3 021.5	5 132.2	86.7	.46	116	102	19 897.9
1972 CENSUS.	603	255	86.6	952.8	69.2	135.3	707.7	1 749.5	2 635.4	4 351.4	62.8	.46	109	98	19 028.7
1971 ASM....	(NA)	(NA)	83.1	828.9	65.7	128.5	617.1	1 734.0	2 278.2	4 020.9	60.3	.45	105	94	18 363.1
1970 ASM....	(NA)	(NA)	82.0	732.2	64.5	123.1	534.6	1 280.1	1 719.0	2 987.8	109.5	.43	103	99	19 217.2
1969 ASM....	(NA)	(NA)	89.3	771.2	71.7	146.7	570.0	1 589.2	2 133.9	3 687.7	208.8	.45	112	103	20 035.5
1968 ASM....	(NA)	(NA)	84.5	693.5	68.1	139.0	515.7	1 410.9	1 984.5	3 408.1	76.6	.43	106	100	19 527.6
1967 CENSUS.	567	240	82.9	631.7	66.5	134.5	469.8	1 260.5	1 839.8	3 077.8	773.6	.43	104	99	19 323.2
1966 ASM....	(NA)	(NA)	83.2	630.4	67.3	134.5	480.9	1 185.1	1 705.9	2 871.5	97.0	.44	105	98	19 024.5
1965 ASM....	(NA)	(NA)	79.2	584.1	64.3	129.1	448.5	1 098.5	1 479.8	2 578.3	134.8	.44	100	92	18 010.2
1964 ASM....	(NA)	(NA)	74.3	533.2	59.8	120.3	406.2	1 026.0	1 321.3	2 312.7	107.1	.43	93	89	17 268.5
1963 CENSUS.	571	222	69.4	479.2	55.6	110.5	361.6	901.6	(NA)	(NA)	57.3	.41	87	87	16 958.4

(NA) Not available.

[1] In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2] Including central administrative offices and auxiliaries (for definition, see appendix B).

[3] Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
OHIO									
1977 CENSUS	15 292	69	1 989	7.02	55	77	32 344	47	23.42
1976 ASM	13 917	69	1 972	6.41	56	77	29 403	47	21.52
1975 ASM	12 576	68	1 937	5.86	56	78	25 433	49	19.28
1974 ASM	11 606	70	1 979	5.32	55	77	24 568	47	17.71
1973 ASM	10 934	71	2 027	4.91	52	77	21 977	50	15.23
1972 CENSUS	10 258	70	2 008	4.62	51	77	20 182	51	14.39
1971 ASM	9 398	69	1 973	4.29	52	77	18 019	52	13.19
1970 ASM	8 734	70	1 985	3.96	51	77	16 447	53	11.86
1969 ASM	8 455	71	2 044	3.74	52	77	16 470	51	11.29
1968 ASM	8 006	71	2 039	3.55	52	77	15 482	52	10.67
1967 CENSUS	7 533	71	2 018	3.35	52	77	14 628	51	10.14
1966 ASM	7 353	72	2 082	3.22	53	78	14 267	52	9.51
1965 ASM	7 075	72	2 072	3.11	53	77	13 764	51	9.21
1964 ASM	6 808	72	2 058	3.01	53	78	13 076	52	8.87
1963 CENSUS	6 554	71	2 032	2.92	(NA)	(NA)	12 507	52	8.62
CINCINNATI-HAMILTON, OHIO-KY.-IND., SCSA									
1977 CENSUS	15 531	62	2 025	6.79	52	74	34 857	45	27.72
1972 CENSUS	10 354	63	2 042	4.40	47	72	22 275	46	17.24
CLEVELAND-AKRON-LORAIN SCSA									
1977 CENSUS	16 153	66	2 029	7.20	55	79	30 787	52	23.00
1972 CENSUS	10 776	66	2 034	4.81	51	78	19 880	54	14.87
AKRON SMSA									
1977 CENSUS	15 624	60	1 985	7.03	53	84	24 108	65	20.25
1976 ASM	13 643	58	1 855	6.25	54	82	21 611	63	20.04
1975 ASM	12 344	58	1 908	5.89	55	84	19 787	62	18.02
1974 ASM	11 990	59	1 991	5.47	53	81	21 342	56	18.03
1973 ASM	11 376	59	2 000	5.19	49	79	20 030	57	16.90
1972 CENSUS	10 639	59	2 013	4.88	48	79	17 862	60	15.07
1971 ASM	10 191	58	1 945	4.64	48	81	15 863	64	14.17
1970 ASM	9 145	60	1 944	4.23	52	83	14 579	63	12.56
1969 ASM	8 908	61	2 021	4.03	52	83	14 066	63	11.43
1968 ASM	8 433	60	2 009	3.85	52	82	13 625	62	11.21
1967 CENSUS	7 982	61	1 945	3.72	49	78	13 856	58	11.62
1966 ASM	7 802	61	2 062	3.57	53	83	12 773	61	10.11
1965 ASM	7 584	62	2 086	3.39	51	81	12 755	59	9.89
1964 ASM	7 298	62	2 055	3.26	51	81	12 066	60	9.44
1963 CENSUS	7 044	62	2 014	3.17	(NA)	(NA)	11 180	63	8.93
CANTON SMSA									
1977 CENSUS	14 962	73	1 935	7.44	56	77	33 150	45	23.47
1976 ASM	14 089	72	1 908	6.79	58	79	27 651	51	20.05
1975 ASM	12 690	71	1 899	6.20	54	75	26 600	48	19.63
1974 ASM	11 698	74	1 952	5.63	56	78	24 313	48	16.88
1973 ASM	10 844	76	1 983	5.14	53	77	22 148	49	14.77
1972 CENSUS	9 845	75	1 933	4.72	51	75	19 993	49	13.86
1971 ASM	8 913	72	1 866	4.41	51	77	16 681	53	12.37
1970 ASM	8 550	74	1 893	4.10	53	79	15 580	55	11.05
1969 ASM	8 281	75	2 020	3.80	52	77	16 194	51	10.66
1968 ASM	7 572	75	1 956	3.55	50	74	15 881	48	10.87
1967 CENSUS	7 246	75	1 966	3.38	51	75	14 346	51	9.75
1966 ASM	7 309	75	2 042	3.33	52	77	14 330	51	9.38
1965 ASM	7 020	76	2 018	3.22	52	76	13 830	51	9.07
1964 ASM	6 843	75	2 043	3.10	54	79	12 656	54	8.21
1963 CENSUS	6 483	75	1 968	3.00	(NA)	(NA)	12 583	52	8.47
CINCINNATI, OHIO-KY.-IND, SMSA									
1977 CENSUS	15 206	61	2 035	6.52	52	73	35 245	43	28.53
1976 ASM	14 072	60	2 031	6.04	54	74	31 819	44	26.12
1975 ASM	12 836	59	1 987	5.57	53	74	28 790	45	24.43
1974 ASM	11 856	62	2 023	4.93	52	75	26 052	46	20.76
1973 ASM	10 970	63	2 047	4.58	50	73	24 059	46	18.77
1972 CENSUS	10 208	62	2 027	4.30	46	71	22 596	45	18.02
1971 ASM	9 448	62	1 999	4.03	48	71	21 319	44	17.20
1970 ASM	8 773	62	1 990	3.72	49	73	19 060	46	15.36
1969 ASM	8 338	63	2 035	3.45	50	73	18 330	45	14.24
1968 ASM	7 948	63	2 050	3.29	49	73	17 386	46	13.38
1967 CENSUS	7 546	64	2 024	3.14	51	74	16 212	47	12.46
1966 ASM	7 288	65	2 120	3.00	52	75	15 657	47	11.41
1965 ASM	7 005	65	2 083	2.90	48	71	15 194	46	11.15
1964 ASM	6 662	65	2 091	2.77	51	74	14 475	46	10.59
1963 CENSUS	6 426	65	2 069	2.68	(NA)	(NA)	13 368	48	9.93

See footnotes at end of table.

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years—Con.

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
				CLEVELAND SMSA					
1977 CENSUS	16 064	66	2 032	7.06	52	77	30 547	53	22.69
1976 ASM	14 340	66	2 018	6.34	51	77	27 642	52	20.90
1975 ASM	12 832	64	1 949	5.80	52	79	22 875	56	18.31
1974 ASM	11 897	66	2 009	5.28	52	78	22 827	52	17.17
1973 ASM	11 313	69	2 052	4.96	50	77	20 898	54	14.84
1972 CENSUS	10 738	67	2 031	4.74	49	78	19 416	55	14.31
1971 ASM	9 778	66	1 970	4.41	52	80	16 824	58	13.04
1970 ASM	9 026	66	1 980	4.06	50	80	15 465	58	11.90
1969 ASM	8 784	68	2 044	3.88	51	78	15 784	56	11.31
1968 ASM	8 360	68	2 072	3.65	51	79	14 845	56	10.51
1967 CENSUS	7 860	68	2 040	3.44	50	79	14 006	56	10.03
1966 ASM	7 801	69	2 131	3.31	51	78	14 368	54	9.77
1965 ASM	7 448	69	2 109	3.18	52	79	13 628	55	9.31
1964 ASM	7 100	69	2 070	3.07	53	80	12 380	57	8.73
1963 CENSUS	6 808	69	2 047	2.96	(NA)	(NA)	12 054	56	8.50
				COLUMBUS SMSA					
1977 CENSUS	14 384	66	1 947	6.63	49	73	30 854	47	24.17
1976 ASM	13 230	66	1 937	6.07	50	73	29 102	45	22.69
1975 ASM	12 178	65	1 924	5.61	51	74	25 038	49	19.89
1974 ASM	11 006	68	1 911	5.19	50	74	23 995	46	18.50
1973 ASM	10 179	69	1 932	4.67	46	72	21 304	48	16.01
1972 CENSUS	9 476	67	1 954	4.30	45	72	19 426	49	14.73
1971 ASM	8 926	68	1 945	4.07	45	71	18 813	47	14.17
1970 ASM	8 514	70	1 990	3.81	46	73	16 384	52	11.84
1969 ASM	8 208	70	2 013	3.63	47	15	15 992	51	11.40
1968 ASM	7 847	68	2 014	3.45	49	77	14 280	55	10.41
1967 CENSUS	7 430	68	2 004	3.23	47	75	14 002	53	10.28
1966 ASM	7 120	68	2 020	3.14	47	75	13 714	52	10.02
1965 ASM	6 828	69	2 030	3.00	47	75	13 280	51	9.51
1964 ASM	6 626	68	2 041	2.92	47	75	12 922	51	9.37
1963 CENSUS	6 368	67	1 996	2.83	(NA)	(NA)	11 994	53	8.97
				DAYTON SMSA					
1977 CENSUS	16 415	68	2 063	7.45	48	77	30 618	54	21.68
1976 ASM	14 995	69	2 023	6.91	48	77	27 825	54	19.87
1975 ASM	13 479	67	1 973	6.26	49	79	21 924	61	16.60
1974 ASM	12 042	68	1 978	5.62	48	78	21 722	55	16.04
1973 ASM	11 706	70	2 054	5.34	46	77	20 558	57	14.31
1972 CENSUS	11 285	66	2 037	5.10	45	79	18 122	62	13.45
1971 ASM	10 057	68	1 965	4.77	44	77	16 158	62	12.03
1970 ASM	9 530	71	2 014	4.43	42	77	16 213	59	11.37
1969 ASM	9 231	74	2 111	4.07	43	76	16 241	57	10.42
1968 ASM	8 704	74	2 076	3.88	44	77	14 882	58	9.69
1967 CENSUS	8 103	75	1 782	4.25	42	74	15 122	54	11.27
1966 ASM	7 983	76	2 158	3.44	44	77	14 239	56	8.71
1965 ASM	7 575	76	2 137	3.33	37	69	13 615	56	8.43
1964 ASM	7 176	75	2 122	3.17	43	74	13 199	54	8.29
1963 CENSUS	6 900	75	2 087	3.08	(NA)	(NA)	12 652	55	8.08
				TOLEDO, OHIO-MICH., SMSA					
1977 CENSUS	16 226	70	1 968	7.51	61	80	34 551	47	24.95
1976 ASM	15 060	71	2 000	6.88	59	78	33 956	44	23.80
1975 ASM	13 283	70	1 917	6.34	58	76	30 544	43	22.73
1974 ASM	12 260	69	1 969	5.75	59	80	25 277	49	18.54
1973 ASM	11 645	72	2 019	5.19	55	79	22 554	52	15.61
1972 CENSUS	10 821	70	2 014	4.85	55	79	20 602	53	14.58
				YOUNGSTOWN-WARREN SMSA					
1977 CENSUS	17 207	79	1 919	8.52	60	81	32 952	52	21.75
1976 ASM	15 138	79	1 871	7.69	61	81	30 331	50	20.61
1975 ASM	13 898	79	1 859	7.05	63	82	27 506	51	18.76
1974 ASM	12 698	81	1 915	6.30	58	77	29 367	43	18.85
1973 ASM	12 050	81	2 039	5.68	59	81	23 252	52	14.06
1972 CENSUS	11 002	80	1 955	5.23	61	82	20 202	54	12.93
1971 ASM	9 975	79	1 956	4.80	57	77	20 866	48	13.49
1970 ASM	8 929	79	1 909	4.34	58	82	15 611	57	10.39
1969 ASM	8 636	80	2 046	3.89	58	79	17 796	49	10.83
1968 ASM	8 207	81	2 041	3.71	58	79	16 697	49	10.15
1967 CENSUS	7 620	80	2 023	3.49	60	80	15 205	50	9.37
1966 ASM	7 577	81	1 999	3.58	59	81	14 244	53	8.81
1965 ASM	7 375	81	2 008	3.47	57	80	13 870	53	8.51
1964 ASM	7 176	80	2 012	3.38	57	80	13 809	52	8.53
1963 CENSUS	6 905	80	1 987	3.27	(NA)	(NA)	12 991	53	8.16

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	17 354	16 390
With 1 to 19 employees	do	10 820	9 903
With 20 to 99 employees	do	4 404	4 222
With 100 employees or more	do	2 324	2 265
All employees, average for year[1]	1,000	1 331.2	1 348.3
Payroll for year, all employees[1]	mil. dollars	20 358.0	13 810.0
Production workers:			
Average for year	1,000	924.4	940.0
March	do	903.4	917.0
May	do	927.8	932.6
August	do	922.7	939.1
November	do	942.7	971.5
Hours	millions	1 838.5	1 887.8
January to March	do	439.1	456.7
April to June	do	471.3	474.5
July to September	do	481.5	464.5
October to December	do	466.6	492.0
Wages	mil. dollars	12 907.5	8 717.0
Cost of materials, etc.[2]	do	52 738.3	28 285.6
Materials, parts, containers, etc., consumed	do	46 541.7	24 976.8
Resales	do	2 729.7	1 779.0
Fuels consumed	do	1 442.4	555.1
Purchased electric energy	do	1 217.1	464.2
Contract work	do	805.4	510.7
Value of shipments, including resales[2]	do	95 234.7	55 025.4
Value of resales	do	3 620.0	2 373.5
Value added by manufacture	do	43 054.7	27 171.0
Manufacturers' inventories:			
Beginning of year	do	12 139.4	7 441.8
Finished products	do	3 735.9	2 490.0
Work in process	do	3 954.1	2 392.4
Materials, supplies, fuel, etc.	do	4 449.4	2 559.1
End of year	do	13 037.2	7 871.0
Finished products	do	4 009.0	2 625.8
Work in process	do	4 232.0	2 588.6
Materials, supplies, fuel, etc.	do	4 796.2	2 656.6
Capital expenditures for plant and equipment	do	2 930.8	1 786.1
New capital expenditures	do	2 790.7	1 695.4
New buildings and other structures	do	455.6	314.2
New machinery and equipment	do	2 335.1	1 381.2
Used capital expenditures	do	139.8	90.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	29,390.0	1
New capital expenditures	2,828.7	1
Used capital expenditures	167.3	12
Retirements	1,106.1	2
End of year	31,279.9	1
Buildings and other structures:		
Beginning of year	7,112.8	1
New capital expenditures	445.0	2
Used capital expenditures	(66.5)	30
Retirements	144.9	3
End of year	7,479.3	1
Machinery and equipment:		
Beginning of year	22,276.9	1
New capital expenditures	2,383.7	1
Automobiles, trucks, etc., for highway use	104.1	(NA)
Computers and peripheral data processing equip.	38.3	(NA)
All other	1,995.7	(NA)
New machinery and equipment, n.s.k.	245.6	(NA)
Used capital expenditures	100.8	5
Retirements	961.4	2
End of year	23,800.1	1

Item	Amount (million dollars)	Standard error of estimate (percent)
Rental payments:		
Total	426.5	3
Buildings and other structures	174.4	3
Machinery and equipment	251.6	4
Depreciation charges during 1977:		
Total	1,850.0	1
Buildings and other structures	268.0	2
Machinery and equipment	1,582.0	1
Supplemental labor costs:		
Total	4,412.4	1
Legal costs	1,447.2	1
Voluntary costs	2,965.2	1
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	126.0	8
Response coverage ratio (percent)	62	(X)
Machinery	(599.8)	44
Response coverage ratio (percent)	61	(X)
Cost of purchased communication services	(167.6)	79
Response coverage ratio (percent)	66	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E[1]	1977										1972	
		All establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
Ohio	-	**17 354**	**6 728**	**1 331.2**	**20 356.0**	**924.4**	**1 838.5**	**12 907.5**	**43 054.7**	**52 738.3**	**95 234.7**	**2 790.7**	**1 348.3**	**27 171.0**
STANDARD CONSOLIDATED STATISTICAL AREAS														
Cincinnati-Hamilton, Ohio-Ky.-Ind.	-	2 373	958	189.6	2 944.3	117.7	238.4	1 618.9	8 608.2	7 198.2	13 769.5	357.1	185.5	4 145.4
Portion in Ohio	-	2 127	860	175.2	2 751.5	107.4	217.8	1 492.7	6 159.3	6 732.5	12 868.7	335.4	170.8	3 803.5
Portion in Indiana	E1	32	13	3.4	49.0	2.8	5.8	38.2	187.0	121.7	307.6	6.4	3.9	159.1
Portion In Kentucky	E2	214	85	11.0	143.8	7.6	14.8	88.1	261.9	342.0	593.2	15.3	11.0	182.8
Cleveland-Akron-Lorain	-	5 877	2 184	388.7	6 278.6	256.4	520.3	3 744.5	11 966.8	14 173.4	25 950.7	793.7	399.1	7 925.5
STANDARD METROPOLITAN STATISTICAL AREAS														
Akron	-	1 061	406	83.5	1 305.4	50.1	99.4	699.4	2 014.2	2 205.8	4 158.1	156.8	94.4	1 686.2
Canton	-	603	235	57.2	856.4	41.8	80.8	601.5	1 897.5	2 405.6	4 262.4	121.2	57.6	1 151.8
Cincinnati, Ohio-Ky.-Ind.	-	2 135	856	160.2	2 435.8	97.2	197.9	1 289.5	5 645.9	8 043.1	11 647.9	(D)	157.8	3 561.2
Portion in Ohio	-	1 889	758	145.8	2 243.0	86.9	177.3	1 163.3	5 197.0	5 579.4	10 747.1	277.5	142.7	3 219.3
Portion in Indiana	E1	32	13	3.4	49.0	2.8	5.8	38.2	187.0	121.7	307.6	(D)	3.9	159.1
Portion in Kentucky	E1	214	85	11.0	143.8	7.6	14.8	88.1	261.9	342.0	593.2	15.3	11.0	182.8
Cleveland	-	4 475	1 654	265.4	4 262.8	175.9	357.3	2 524.1	8 105.9	8 600.4	16 599.6	543.1	268.9	5 220.9
Columbus	-	1 315	500	98.2	1 384.3	63.1	122.8	814.7	2 969.4	2 830.7	5 772.3	165.4	102.4	1 989.2
Dayton	-	1 302	506	106.5	1 748.3	72.9	150.4	1 120.4	3 281.0	2 975.8	6 159.8	266.8	118.8	2 152.9
Hamilton-Middletown	-	236	102	29.4	508.5	20.5	40.5	329.4	962.3	1 153.1	2 121.6	57.9	28.5	585.5
Huntington-Ashland, W. Va.-Ky.-Ohio	-	339	125	29.8	438.8	20.9	40.9	288.1	754.3	1 982.8	2 728.9	233.7	25.7	530.1
Portion in Ohio	E1	52	16	3.1	40.9	2.5	5.1	31.7	83.4	144.8	229.1	15.7	3.2	76.0
Portion in West Virginia	E1	199	71	14.8	199.1	11.2	21.9	138.0	381.2	675.5	1 060.6	47.7	14.0	230.1
Portion In Kentucky	-	88	38	11.7	198.8	7.3	13.9	118.4	289.6	1 162.5	1 439.2	170.2	8.5	224.0
Lima	-	330	138	30.6	451.6	23.4	47.2	322.9	1 216.0	2 487.4	3 644.9	76.4	28.2	668.0
Lorain-Elyria	-	341	124	39.8	710.5	30.4	63.5	521.0	1 846.8	3 387.2	5 193.0	93.8	36.1	1 033.1
Mansfield	-	207	89	20.9	311.7	15.3	31.1	219.9	617.3	839.3	1 453.4	61.3	22.6	478.4
Parkersburg-Marietta, W. Va.-Ohio	-	182	63	15.8	222.4	11.2	21.7	139.7	724.9	779.3	1 479.2	85.3	18.0	482.2
Portion in Ohio	-	83	28	8.2	84.3	4.3	8.2	52.9	228.0	375.0	587.5	43.4	5.9	139.1
Portion in West Virginia	-	99	35	9.6	138.1	6.9	13.5	86.8	496.9	404.3	891.7	41.9	12.1	343.1
Springfield	-	262	100	18.3	245.0	13.0	24.7	169.2	550.9	676.0	1 193.5	32.6	20.1	390.5
Steubenville-Weirton, Ohio-W. Va.	-	138	67	26.7	497.6	21.2	41.0	382.6	955.0	1 643.9	2 601.6	67.9	29.0	705.7
Portion in Ohio	-	68	28	7.9	147.4	6.2	11.9	113.6	400.6	657.4	1 058.9	21.2	9.3	263.7
Portion in West Virginia	-	70	39	18.7	350.3	15.0	29.1	269.0	554.4	986.5	1 542.8	46.7	19.7	442.0
Toledo, Ohio-Mich.	-	1 247	455	92.7	1 504.2	65.2	128.4	963.6	3 203.0	5 007.8	8 169.9	259.7	91.2	1 878.9
Portion in Ohio	-	1 107	402	83.3	1 335.2	58.4	113.4	847.4	2 871.2	4 651.2	7 482.9	180.7	82.8	1 689.6
Portion In Michigan	-	140	53	9.4	169.0	6.8	15.0	116.1	331.8	356.5	687.0	78.9	8.4	189.3
Wheeling, W. Va.-Ohio	-	156	68	13.0	173.5	9.8	17.9	117.2	427.3	552.0	978.6	40.3	13.3	202.8
Portion in Ohio	-	64	22	4.1	53.1	3.2	5.8	39.3	140.5	228.6	368.2	5.4	5.2	69.3
Portion in West Virginia	E1	92	46	9.0	120.4	6.6	12.1	77.8	286.9	325.3	610.4	34.9	8.1	133.5
Youngstown-Warren	-	620	258	79.5	1 368.2	62.8	120.4	1 026.7	2 620.2	3 996.0	6 612.1	131.0	86.6	1 749.5
COUNTIES														
Adams	-	29	5	1.0	10.2	0.9	1.6	6.9	23.8	34.3	57.9	2.1	0.8	14.3
Allen	-	158	72	16.8	272.8	12.6	26.1	197.0	795.5	1 877.1	2 820.4	51.6	15.5	400.5
Ashland	-	81	34	7.7	90.4	5.4	11.2	57.3	215.4	229.4	445.9	7.1	7.4	128.3
Ashtabula	-	167	77	12.8	164.2	10.2	19.0	118.8	388.6	458.6	843.5	41.0	12.6	235.8
Athens	-	44	12	1.3	13.5	1.0	1.8	8.7	31.1	25.0	53.6	1.4	1.3	18.9
Auglaize	-	75	32	6.8	83.7	5.0	9.6	56.3	199.7	269.6	464.8	14.3	5.8	100.4
Belmont	-	64	22	4.1	53.1	3.2	5.8	39.3	140.5	226.6	368.2	5.4	5.2	69.3
Brown	-	23	8	1.1	11.5	0.8	1.6	8.2	16.9	23.0	46.2	0.8	0.7	11.5
Butler	-	238	102	29.4	508.5	20.5	40.5	329.4	962.3	1 153.1	2 121.6	57.9	28.5	585.5
Carroll	-	38	18	1.5	16.2	1.2	2.2	11.1	40.8	45.5	85.4	1.8	1.2	20.3
Champaign	-	50	17	3.0	31.6	2.4	4.7	24.1	113.2	75.6	180.2	5.2	3.0	71.7
Clark	-	212	83	15.3	213.4	10.6	20.1	145.1	437.7	600.4	1 013.3	27.4	17.2	318.8
Clermont	E1	83	15	2.4	29.2	1.6	3.0	16.0	63.6	79.9	141.4	3.1	1.9	52.2
Clinton	-	54	29	4.2	45.4	3.3	6.6	32.6	109.7	92.5	199.9	6.4	3.0	54.3
Columbiana	-	204	77	10.5	127.6	7.9	14.9	85.6	247.4	184.7	422.4	9.4	10.2	143.4
Coshocton	-	55	24	5.2	74.2	3.6	7.7	47.9	163.6	200.8	362.8	18.0	5.3	112.2
Crawford	-	104	43	9.5	131.8	6.7	13.1	85.9	261.6	275.4	536.8	9.1	10.6	189.5
Cuyahoga	-	3 643	1 356	226.1	3 737.6	149.5	305.7	2 229.0	7 029.9	7 557.6	14 494.6	465.8	233.9	4 625.5
Darke	-	78	27	3.7	41.9	3.1	5.9	32.0	116.9	129.6	243.6	6.6	2.9	58.6
Defiance	-	54	22	7.8	142.0	6.4	13.1	114.9	330.7	241.4	565.6	(D)	7.3	154.4
Delaware	-	83	28	4.4	54.5	3.2	8.2	38.0	160.8	176.0	331.0	4.2	4.3	94.9
Erie	-	137	58	12.0	193.5	9.1	18.7	140.5	419.7	501.2	916.3	34.9	11.7	254.6
Fairfield	-	101	48	11.7	138.7	8.2	18.3	89.6	288.8	217.9	495.9	20.3	10.9	154.0
Fayette	-	40	17	2.8	33.9	2.0	4.0	22.6	84.5	112.9	194.8	3.5	2.2	39.4
Franklin	-	1 095	396	74.1	1 110.9	47.0	91.5	834.4	2 292.0	2 150.8	4 432.2	124.3	80.3	1 580.6
Fulton	-	103	47	6.9	76.1	5.6	10.8	53.6	190.7	291.0	479.2	10.3	5.7	94.7
Gallia	-	24	8	1.0	11.6	0.6	1.6	8.2	32.2	36.1	67.6	2.5	0.7	13.1
Geauga	-	151	50	6.5	76.0	4.6	8.7	43.8	147.6	160.4	304.7	6.6	4.7	70.0
Greene	-	104	40	4.0	53.3	2.9	5.7	34.7	112.2	130.2	241.6	5.6	3.4	63.0
Guernsey	E2	55	28	5.2	56.0	3.4	6.3	32.9	147.6	187.7	334.5	5.9	4.4	70.6
Hamilton	-	1 709	703	139.6	2 169.0	82.8	169.0	1 120.4	5 043.1	5 378.1	10 392.7	267.6	137.4	3 117.0
Hancock	-	92	42	8.9	129.3	5.7	11.1	67.2	300.5	441.4	739.4	19.4	7.6	164.2
Hardin	-	51	21	3.2	40.6	2.5	4.6	29.7	119.5	139.2	262.2	5.5	3.1	63.2
Harrison	-	23	6	1.0	7.7	0.9	1.5	6.4	12.4	8.6	20.9	0.7	1.1	10.0
Henry	-	55	19	3.9	46.5	3.2	6.4	35.8	206.7	274.1	482.2	6.0	3.6	120.5
Highland	-	37	20	3.2	29.9	2.8	5.4	24.6	64.3	67.2	129.9	3.3	2.8	42.4
Hocking	-	34	12	2.3	26.7	2.0	4.0	20.6	61.8	48.1	110.3	2.5	2.5	42.8
Holmes	E1	74	31	2.6	26.8	2.3	4.5	20.7	69.3	87.4	155.5	6.2	2.1	40.1
Huron	-	102	50	8.4	97.3	8.6	13.5	69.9	234.2	318.6	548.3	10.2	7.9	168.2
Jackson	-	54	16	2.7	25.7	2.2	4.2	18.7	60.8	108.5	170.3	4.4	1.8	34.3
Jefferson	-	68	28	7.9	147.4	6.2	11.9	113.6	400.8	657.4	1 058.9	21.2	9.3	263.7
Knox	-	42	17	3.0	40.4	2.0	4.2	24.3	103.0	107.9	203.8	4.2	4.1	74.2

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E[1]	1977											1972	
		All establishments[2]		All employees[2]		Production workers								
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
COUNTIES—Con.														
Lake	–	486	171	25.0	361.8	16.0	31.8	197.1	735.0	850.9	1 379.9	57.2	23.8	418.1
Lawrence	–	52	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	76.0
Licking	–	133	46	10.6	152.2	8.1	15.4	107.6	375.0	348.0	712.2	28.9	10.1	212.4
Logan	–	54	20	3.8	45.0	3.1	8.0	33.5	88.9	76.8	162.3	6.0	3.0	52.4
Lorain	–	341	124	39.8	710.5	30.4	63.5	521.0	1 846.8	3 367.2	5 193.0	93.8	38.1	1 033.1
Lucas	–	767	272	59.9	1 007.2	39.5	76.5	599.2	2 225.9	3 780.4	5 971.8	133.0	60.2	1 220.5
Madison	–	28	15	1.5	14.7	1.2	2.2	10.6	41.5	39.4	80.9	0.8	2.3	40.3
Mahoning	–	357	136	33.2	521.2	25.6	47.4	376.2	883.7	1 481.1	2 358.0	39.0	36.2	895.8
Marion	–	100	44	12.1	173.0	9.4	16.9	124.7	446.6	634.9	1 096.8	21.7	10.2	244.0
Medina	–	195	77	7.8	87.4	5.8	11.3	54.2	193.4	231.6	420.4	13.5	6.8	107.3
Meigs	–	15	5	0.3	2.4	0.2	0.4	1.7	6.7	4.5	11.1	0.2	0.3	3.4
Mercer	–	63	20	5.3	80.7	4.3	8.2	47.1	120.0	193.5	310.4	4.8	4.9	89.3
Miami	–	177	80	15.0	189.1	10.0	20.6	114.9	388.9	474.1	847.3	18.9	12.4	217.3
Monroe	–	17	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Montgomery	–	962	370	85.5	1 484.3	58.5	121.2	956.5	2 696.9	2 309.8	4 947.3	239.0	101.2	1 640.7
Morgan	–	19	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Morrow	–	23	7	1.5	17.8	1.1	2.3	12.1	38.0	33.5	71.1	1.0	1.5	26.0
Muskingum	–	98	41	8.1	91.6	6.6	12.7	68.9	219.7	277.0	495.8	15.2	9.2	149.0
Noble	–	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	11.7
Ottawa	–	75	21	3.0	40.2	2.4	4.6	29.8	75.0	118.8	193.7	5.6	3.2	54.0
Paulding	–	31	10	1.3	16.6	1.1	2.2	13.1	25.2	39.5	65.8	1.9	1.3	18.7
Perry	–	42	18	1.9	19.2	1.7	3.3	14.5	35.9	29.2	63.9	2.8	1.5	17.7
Pickaway	–	28	15	4.6	65.6	3.4	6.7	44.0	186.6	246.7	432.2	15.6	4.6	119.5
Pike	–	26	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	51.8
Portage	–	194	83	8.0	102.7	5.8	11.7	64.3	228.7	204.7	431.5	12.7	9.2	183.8
Preble	–	59	16	2.0	21.5	1.5	2.9	14.3	82.9	61.6	123.7	3.3	1.7	32.0
Putnam	–	47	12	2.8	34.6	2.4	4.9	29.0	68.0	104.9	174.7	4.0	(D)	(D)
Richland	–	207	89	20.9	311.7	15.3	31.1	219.9	617.3	839.3	1 453.4	61.3	22.6	478.4
Ross	–	61	19	5.7	82.5	4.0	8.5	55.1	238.8	298.7	535.2	(D)	4.3	101.1
Sandusky	–	114	53	9.2	124.1	7.5	15.2	94.6	406.7	506.3	912.5	23.2	8.3	231.3
Scioto	–	69	17	2.9	44.9	2.1	4.1	31.3	106.4	196.7	316.8	10.2	5.2	96.0
Seneca	–	81	38	10.1	145.1	7.8	15.6	105.3	332.2	306.9	630.6	25.3	9.8	198.3
Shelby	–	89	42	8.9	86.8	6.9	13.6	63.3	195.4	290.2	488.2	11.5	8.0	132.7
Stark	–	567	217	55.8	840.3	40.6	78.6	590.4	1 856.7	2 360.1	4 177.0	119.4	56.4	1 131.4
Summit	–	867	323	75.6	1 202.6	44.3	87.7	635.1	1 785.5	2 001.1	3 726.7	144.1	85.3	1 502.4
Trumbull	–	263	122	46.3	847.1	37.2	73.1	650.5	1 736.5	2 534.9	4 254.1	92.0	50.4	1 053.7
Tuscarawas	–	189	80	8.8	115.7	6.6	12.9	79.8	265.4	361.3	625.5	16.7	9.4	175.5
Union	–	39	21	4.0	54.4	2.5	4.7	28.8	262.1	209.5	483.1	5.7	2.0	93.9
Van Wert	–	50	22	4.4	60.6	3.3	6.6	40.5	152.9	235.8	385.1	6.5	4.0	87.4
Vinton	–	21	5	0.7	6.4	0.6	1.1	5.0	15.6	15.0	30.5	1.0	0.7	5.7
Warren	–	97	40	3.8	44.8	2.7	5.3	27.0	90.3	123.4	213.1	6.7	3.4	50.1
Washington	–	83	28	6.2	84.3	4.3	8.2	52.9	228.0	375.0	587.5	43.4	5.9	139.1
Wayne	–	180	84	13.4	174.8	9.9	19.7	117.2	397.5	548.2	942.2	43.4	12.2	222.2
Williams	–	98	50	7.9	99.2	5.9	11.3	64.8	228.7	268.5	496.5	15.0	7.2	148.0
Wood	–	162	62	13.5	211.7	11.0	21.6	164.9	379.6	461.0	838.2	31.7	13.7	320.4
Wyandot	–	51	21	3.4	32.1	2.9	5.4	25.3	72.6	85.0	157.0	8.1	2.3	39.5
CITIES														
Akron	–	376	139	44.4	736.5	22.8	44.9	339.1	906.4	1 029.0	1 883.4	73.2	50.6	935.8
Alliance	–	84	29	5.5	82.9	3.9	7.8	53.6	128.6	126.8	259.1	4.6	5.7	96.8
Amberley	–	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Amherst	–	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Archbold	–	37	18	2.6	30.0	2.0	3.9	20.6	88.8	156.1	244.3	2.6	1.9	42.4
Ashland	–	65	30	5.4	62.4	3.8	7.8	39.7	156.1	155.7	310.0	6.1	5.0	80.5
Ashtabula	–	48	20	3.9	51.5	3.0	5.6	36.8	98.7	99.3	195.0	7.5	4.7	91.7
Athens	–	12	5	0.7	8.2	0.5	0.9	5.2	19.4	16.1	33.0	0.8	0.7	11.9
Aurora	–	12	8	0.9	11.8	0.6	1.2	6.6	30.8	34.8	64.4	(D)	0.6	9.8
Austintown (U)	–	22	11	3.2	52.3	2.4	4.7	35.9	127.0	120.4	243.1	3.0	5.9	96.7
Avon Lake	–	22	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Barberton	–	61	25	9.7	144.5	6.0	11.4	81.1	289.6	325.5	624.9	23.8	12.9	198.0
Beachwood	E1	41	10	0.7	10.2	0.3	0.6	3.3	15.5	15.6	30.7	1.1	0.6	9.0
Bedford	–	61	23	2.5	35.7	1.8	3.5	22.6	69.5	57.4	125.8	3.1	3.0	41.6
Bedford Heights	–	63	35	4.6	56.7	3.5	7.0	37.4	154.1	165.2	318.3	7.0	3.9	68.1
Bellaire	E1	14	5	0.9	9.0	0.8	1.4	6.7	15.5	9.9	25.3	2.9	1.0	8.4
Bellefontaine	–	22	11	2.9	35.9	2.3	4.4	26.5	68.8	58.9	126.9	4.3	2.4	42.4
Bellevue	–	23	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	51.9
Belpre	–	8	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Berea	E1	34	11	0.8	11.3	0.6	1.2	7.5	24.2	19.1	43.0	2.1	1.0	19.4
Blanchester	–	8	7	0.5	6.0	0.4	0.7	3.5	13.6	10.9	24.7	(D)	(NA)	(NA)
Blue Ash	–	75	45	5.8	70.5	4.3	8.2	44.7	162.6	152.6	312.8	11.7	4.3	77.2
Bluffton	–	12	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	9.9
Boardman (U)	–	41	16	2.4	36.0	1.1	2.1	11.8	41.0	53.7	94.4	2.9	(D)	(D)
Bowling Green	–	28	13	1.1	13.5	0.8	1.6	8.2	30.3	31.8	61.9	2.6	1.7	30.0
Brecksville	E1	30	13	1.1	18.8	0.5	0.9	5.3	21.8	12.5	34.3	0.4	0.8	6.4
Brooklyn	–	63	32	4.7	85.4	3.0	6.5	44.6	172.7	137.7	301.7	7.5	12.0	328.8
Brook Park	–	72	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.3	316.9
Brookville	E2	15	8	0.7	7.0	0.6	1.0	5.0	13.7	19.1	32.8	1.3	(NA)	(NA)
Bryan	–	44	21	4.8	59.5	3.4	6.5	36.5	138.6	140.6	278.4	10.1	4.1	82.3
Bucyrus	–	38	13	2.4	29.1	1.9	3.7	21.9	75.0	68.1	144.1	2.0	3.9	78.1
Cambridge	E1	41	19	3.9	44.3	2.3	4.1	24.0	125.5	145.9	273.2	4.3	3.0	46.0
Campbell	–	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Canton	–	207	78	25.9	431.9	18.6	35.8	304.8	940.3	858.6	1 758.6	66.0	25.5	484.2
Carey	–	13	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	13.6

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
CITIES—Con.														
Carrollton	-	18	8	0.6	5.4	0.5	0.8	3.7	12.8	13.8	26.2	0.4	(NA)	(NA)
Celina	-	28	7	3.0	28.9	2.5	4.7	24.1	57.9	110.5	163.9	2.2	2.4	49.4
Centerville	E1	36	9	0.6	7.2	0.4	0.7	4.1	12.6	11.8	24.2	1.0	(NA)	(NA)
Chardon	-	26	12	1.6	20.0	1.2	2.4	12.6	57.8	29.8	87.0	2.1	1.1	17.5
Chillicothe	-	35	12	5.2	77.5	3.7	7.8	51.5	220.2	266.7	484.5	(D)	(D)	(D)
Cincinnati	-	942	367	64.4	960.1	33.1	66.5	410.9	1 653.0	1 644.0	3 285.1	79.5	68.2	1 030.3
Circleville	-	16	8	1.8	23.4	1.5	2.8	17.5	79.8	128.9	208.3	5.5	2.4	67.8
Cleveland	-	2 099	765	120.8	1 847.9	78.9	156.3	1 075.4	3 523.5	3 634.0	7 159.7	149.1	131.2	2 457.0
Cleveland Heights	-	30	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	4.5
Clyde	-	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Coldwater	-	12	6	1.7	25.8	1.3	2.5	19.0	49.7	47.1	98.2	2.1	1.7	29.8
Columbiana	-	28	10	1.7	23.8	1.3	2.4	15.5	47.4	36.8	81.1	1.8	1.7	26.1
Columbus	-	793	282	55.5	825.3	34.3	66.6	455.2	1 732.3	1 667.5	3 399.0	86.6	62.1	1 161.5
Conneaut	-	22	16	2.3	23.3	1.8	3.1	16.5	57.0	42.7	100.2	5.6	1.7	29.0
Coshocton	-	37	17	4.7	69.2	3.3	7.1	44.8	155.6	190.4	344.4	17.1	4.4	93.8
Crestline	-	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	32.6
Cuyahoga Falls	-	67	22	2.2	27.2	1.7	3.3	19.7	66.2	60.8	123.4	3.3	6.1	73.3
Dayton	-	488	189	57.1	1 016.1	40.0	82.7	872.2	1 831.7	1 537.4	3 319.1	145.9	72.4	1 457.5
Defiance	-	35	15	6.8	128.9	5.6	11.5	105.5	288.2	219.3	501.0	(D)	(D)	(D)
Delaware	-	32	19	3.7	47.4	2.7	5.2	31.8	98.2	110.2	204.6	3.9	3.0	54.5
Delphos	-	24	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	12.2
Dover	-	34	20	2.2	33.6	1.4	2.9	20.7	75.7	143.2	217.6	6.6	2.2	45.1
East Cleveland	-	37	15	3.6	79.9	1.3	2.3	12.5	40.1	28.6	68.6	1.4	3.8	30.1
Eastlake	-	84	23	2.2	29.2	1.6	3.1	16.1	46.3	33.2	78.1	2.7	1.9	48.5
East Liverpool	-	27	10	1.2	11.6	1.0	1.7	7.7	22.8	12.2	35.1	0.6	1.4	15.9
East Palestine	-	29	11	1.1	11.9	0.8	1.6	8.6	16.4	16.2	32.5	1.0	1.1	15.5
Eaton	-	20	8	1.3	13.6	1.0	1.9	9.6	32.5	25.4	57.2	2.1	1.1	20.8
Elmwood Place	-	12	8	1.4	17.6	1.0	1.7	10.6	35.2	19.2	54.4	(D)	1.0	23.7
Elyria	-	119	50	9.6	139.7	6.0	12.5	77.2	325.3	278.0	589.6	16.0	9.0	191.3
Euclid	-	142	67	17.4	324.5	11.5	23.4	192.3	608.0	586.5	1 181.2	41.0	16.4	373.1
Fairfax	-	28	15	1.7	21.7	1.1	2.1	11.5	37.9	41.6	79.8	1.8	1.5	21.7
Fairfield	-	30	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Findlay	-	69	30	7.7	113.9	4.7	9.2	56.6	261.0	331.0	589.3	14.8	6.7	139.4
Forest Park	-	18	8	0.6	7.1	0.5	0.9	4.1	12.7	20.9	33.6	1.8	(NA)	(NA)
Fostoria	-	37	22	7.1	113.8	5.6	11.2	86.0	247.8	269.3	513.6	(D)	5.9	144.4
Franklin	-	21	11	0.7	9.6	0.5	1.2	6.8	21.2	29.0	50.1	1.1	1.6	22.3
Fremont	-	76	35	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	102.1
Galion	-	42	20	3.9	53.2	2.4	4.5	26.7	99.4	78.9	179.4	2.2	5.0	74.1
Gallipolis	-	14	5	0.5	6.4	0.4	0.8	4.6	16.6	24.2	40.4	(D)	(NA)	(NA)
Garfield Heights	E1	58	18	1.8	23.8	1.3	2.6	15.1	48.7	54.8	100.9	4.0	1.5	31.3
Geneva	-	13	7	0.7	9.2	0.6	1.0	7.1	17.3	13.3	30.6	0.4	0.9	14.6
Girard	-	17	9	0.9	13.9	0.7	1.4	9.2	35.7	55.8	89.5	1.2	1.1	17.2
Greenfield	-	13	9	1.4	13.8	1.1	2.4	11.8	32.6	36.3	68.7	0.9	1.2	19.3
Greenville	-	35	15	2.6	30.2	2.2	4.3	23.9	97.5	90.3	183.2	5.6	2.2	48.8
Grove City	-	12	5	0.9	6.6	0.7	1.2	4.6	13.8	10.1	24.2	0.4	(NA)	(NA)
Hamilton	-	96	39	8.2	112.9	5.5	10.7	67.7	190.0	230.1	425.4	8.6	5.8	115.4
Harrison	-	16	7	2.5	20.6	2.1	3.5	15.8	52.8	65.4	117.1	1.1	1.3	22.3
Heath	-	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Highland Heights	-	18	10	2.5	34.1	1.4	2.5	15.0	52.2	41.3	94.7	(D)	1.7	26.1
Hilliard	-	17	8	1.2	14.3	0.8	1.6	8.6	37.6	30.3	65.4	1.6	1.0	28.7
Hillsboro	-	21	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	19.7
Hubbard	-	11	4	0.6	7.2	0.5	0.8	4.8	15.1	22.2	36.9	(D)	(D)	(D)
Hudson	-	20	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	16.5
Independence	-	27	18	1.9	35.4	0.7	1.4	9.3	23.6	16.6	39.8	2.3	2.0	15.7
Ironton	-	20	6	1.4	18.2	1.2	2.0	14.7	25.1	23.7	49.6	(D)	2.3	46.6
Jackson	-	18	7	1.0	9.3	0.9	1.7	7.2	28.5	22.9	52.2	2.3	0.8	17.8
Kent	-	60	24	2.3	33.0	1.7	3.4	21.3	64.3	36.8	100.1	2.6	3.5	57.2
Kenton	-	33	15	1.4	13.7	1.1	2.1	9.7	53.6	66.3	117.2	(D)	2.3	49.6
Kettering	-	54	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lakewood	-	66	22	2.0	36.1	1.2	2.1	12.0	74.5	56.2	126.5	3.5	1.6	42.2
Lancaster	-	60	29	9.7	116.1	6.8	13.6	75.1	240.4	160.6	393.6	17.9	9.3	134.5
Lebanon	-	20	8	0.5	4.3	0.4	0.7	2.8	7.2	10.2	17.3	0.5	(NA)	(NA)
Lexington	-	6	5	0.7	5.0	0.5	1.1	3.4	9.1	10.2	19.0	0.4	(D)	(D)
Lima	-	67	32	7.6	109.2	5.4	10.5	73.2	305.9	1 065.3	1 354.5	9.3	6.0	179.9
Lockland	-	23	15	3.3	42.9	2.3	4.7	30.1	95.2	92.8	185.8	2.7	3.3	70.5
Logan	-	14	8	1.3	15.8	1.1	2.3	13.0	36.3	22.6	59.0	1.3	2.4	41.9
London	-	11	5	0.7	8.2	0.6	1.1	5.8	24.6	21.6	46.3	(D)	0.9	14.6
Lorain	-	57	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Loudonville	-	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Louisville	-	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
McDonald	-	3	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Macedonia	E2	35	13	1.0	12.8	0.8	1.6	7.6	31.4	31.6	62.9	2.1	(NA)	(NA)
Mansfield	-	126	56	13.1	172.2	9.2	17.9	114.5	318.6	478.0	795.6	(D)	15.8	321.1
Maple Heights	-	43	14	1.8	26.8	1.4	2.8	18.9	64.2	83.0	142.9	3.0	2.1	39.9
Mariemont	-	3	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Marietta	-	39	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	86.9
Marion	-	57	27	9.9	145.4	7.6	13.4	103.8	373.9	540.7	927.7	16.5	7.2	147.0
Martins Ferry	-	16	8	1.7	26.3	1.3	2.3	18.0	92.2	176.6	269.6	1.1	2.2	31.7
Marysville	-	18	11	1.8	26.5	0.7	1.3	7.2	119.7	71.4	206.6	1.4	1.0	60.5
Mason	-	17	8	1.3	12.5	1.1	2.0	9.7	25.8	48.5	74.2	3.6	0.6	9.3
Massillon	-	58	28	5.3	70.6	4.0	7.6	47.5	158.3	295.9	453.0	9.2	7.3	156.2
Maumee	-	27	10	1.8	33.0	1.3	2.7	23.3	83.5	147.5	224.9	(D)	0.7	12.5
Mayfield	-	15	10	1.3	17.5	0.6	1.4	7.1	32.3	25.1	56.0	2.5	(NA)	(NA)

See footnotes at end of table.

Table 4. **All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972**—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
CITIES—Con.														
Medina	–	81	40	3.9	45.1	2.7	5.2	26.6	105.2	135.7	242.7	6.2	3.2	55.0
Mentor	–	113	34	6.3	98.0	4.3	8.3	59.9	174.5	152.0	322.3	6.7	4.1	69.9
Miamisburg	–	31	16	4.8	74.5	1.8	3.5	21.5	111.4	54.4	189.0	9.0	4.0	82.8
Middletown	–	59	34	14.3	269.8	9.8	19.1	170.2	492.6	612.0	1 110.1	32.8	13.7	290.4
Millersburg	E4	34	11	0.6	6.4	0.6	1.2	5.1	12.8	23.9	36.6	2.0	0.5	8.5
Minerva	–	18	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	36.7
Mogadore	–	11	6	0.5	5.4	0.4	0.7	3.3	11.4	8.6	19.4	0.3	0.6	23.8
Monroe	–	5	4	0.7	7.5	0.5	0.8	4.7	15.0	18.2	32.8	(D)	(D)	(D)
Montgomery	E2	12	1	0.6	1.7	(Z)	0.1	0.3	2.9	2.5	5.4	0.1	(NA)	(NA)
Montpelier	E1	18	10	1.4	19.2	1.0	2.0	12.6	44.7	73.6	118.4	2.1	1.2	30.1
Moraine	–	54	29	2.6	37.9	1.6	3.2	17.8	60.4	71.6	132.6	9.7	1.9	26.7
Mount Gilead	–	13	4	1.1	14.7	0.8	1.7	9.7	30.4	26.4	57.?	0.8	(D)	(D)
Mount Healthy	–	10	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mount Vernon	–	29	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	31.9
Napoleon	–	31	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nelsonville	–	12	4	0.5	3.7	0.4	0.7	2.8	8.0	6.8	14.8	0.4	(NA)	(NA)
Newark	–	71	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.4	118.7
New Boston	–	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Newburgh Heights	–	12	4	0.8	13.5	0.5	1.1	9.1	24.9	28.3	52.8	1.2	1.2	21.6
Newcomerstown	–	21	5	0.9	9.8	0.7	1.3	7.5	19.9	20.7	41.5	1.1	1.1	19.3
New Lexington	–	11	4	0.5	6.3	0.4	0.9	4.4	12.1	8.0	19.8	0.9	(D)	(D)
New Philadelphia	–	40	14	2.4	32.1	1.7	3.1	20.3	71.9	73.7	145.1	5.2	2.1	45.9
Niles	–	40	22	2.5	39.9	1.9	3.6	27.5	78.2	136.4	212.3	5.3	2.7	50.7
North Baltimore	–	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Canton	–	20	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
North Royalton	E2	38	9	0.5	5.9	0.4	0.7	4.0	11.2	8.7	20.3	1.0	(NA)	(NA)
Norton	–	13	7	0.6	7.1	0.5	0.9	5.2	12.5	13.8	26.0	0.2	(NA)	(NA)
Norwalk	–	51	26	3.8	42.8	2.8	5.6	28.6	84.5	94.8	181.3	4.5	2.8	34.5
Norwood	–	55	32	9.8	176.6	7.5	17.0	132.4	466.3	984.5	1 451.0	22.3	7.9	125.4
Oberlin	–	13	4	0.7	9.7	0.4	0.7	3.5	19.5	6.9	25.5	(D)	(NA)	(NA)
Ontario	–	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Orrville	–	44	28	3.9	51.3	2.8	5.7	33.9	116.9	225.3	340.9	15.3	3.7	53.8
Ottawa	–	11	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Oxford	–	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Painesville	–	34	13	2.0	29.1	1.2	2.5	14.8	81.7	57.7	137.0	6.6	(D)	(D)
Parma	–	54	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Paulding	–	8	4	0.5	6.3	0.4	0.8	5.4	13.5	16.0	29.8	(D)	0.5	8.4
Perrysburg	–	18	5	0.5	8.1	0.3	0.6	3.4	23.7	27.1	50.5	0.8	4.2	89.8
Piqua	–	69	34	4.3	50.2	3.4	8.7	35.3	101.2	122.8	221.8	5.8	4.3	71.9
Port Clinton	–	25	5	1.1	14.5	1.0	1.8	11.4	23.8	30.9	54.7	1.4	1.2	18.0
Portsmouth	–	41	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ravenna	–	41	24	2.2	24.2	1.6	3.2	15.5	50.3	46.1	98.1	1.9	2.7	48.3
Reading	–	24	10	2.9	46.6	1.2	2.4	15.0	109.1	73.7	181.9	6.6	3.3	95.1
Ripley	–	6	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	10.4
Rittman	–	14	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Rocky River	E3	37	6	0.5	8.9	0.2	0.4	2.1	8.6	7.4	16.0	0.5	0.5	5.2
Rossford	–	10	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
St. Bernard	–	27	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5	359.1
St. Marys	–	12	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Salem	–	58	27	4.5	58.1	3.3	6.2	38.9	119.1	88.4	201.0	4.7	4.5	83.5
Sandusky	–	83	37	7.5	116.7	5.6	11.4	82.5	228.2	234.3	458.9	18.1	9.8	223.8
Sebring	–	23	14	1.7	14.0	1.4	2.6	10.8	33.8	25.5	59.0	0.7	1.5	16.3
Sharonville	–	52	24	7.7	169.7	5.9	13.4	128.4	355.9	339.9	694.1	(D)	6.3	218.0
Shelby	–	27	12	2.8	41.4	2.1	4.3	29.3	109.6	141.7	249.4	(D)	2.1	43.0
Sidney	–	51	25	7.2	69.2	5.6	10.9	50.2	163.9	218.8	381.9	9.7	6.3	107.4
Solon	–	95	58	9.0	126.5	5.4	11.1	63.8	262.3	296.4	547.0	21.6	5.3	119.0
South Euclid	E1	37	8	0.8	10.5	0.5	1.0	6.0	18.9	15.1	33.7	1.3	1.1	16.7
Springdale	–	29	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Springfield	–	150	64	14.3	202.9	9.8	18.6	138.0	418.4	584.8	978.7	25.9	16.2	306.7
Steubenville	–	21	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Stow	–	34	11	1.4	20.0	1.0	2.0	11.7	40.1	38.6	77.9	3.0	1.8	35.0
Strongsville	–	48	22	2.3	33.9	1.2	2.5	16.6	62.9	49.9	111.7	2.2	1.1	23.5
Swanton	–	14	6	0.8	9.0	0.7	1.2	6.1	24.7	31.9	56.4	(D)	0.5	10.0
Tallmadge	–	34	16	1.3	17.1	0.9	1.8	9.7	32.5	23.4	56.0	1.5	1.4	22.7
Tiffin	–	36	19	4.8	63.1	3.8	7.6	44.3	140.4	119.1	256.5	8.3	5.2	100.2
Tipp City	–	35	15	2.3	27.2	1.4	3.1	17.7	56.2	47.6	103.0	2.9	1.8	24.5
Toledo	–	641	238	54.8	919.8	35.6	68.7	538.6	1 957.2	2 772.0	4 705.2	107.4	55.8	1 117.9
Toronto	–	9	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Troy	–	41	19	7.1	96.2	4.2	8.9	52.2	195.1	236.0	420.0	8.4	4.9	91.6
Twinsburg	–	34	16	5.6	96.2	4.8	9.5	77.3	156.5	141.8	295.8	8.4	(D)	(D)
Uhrichsville	–	14	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Upper Sandusky	–	31	15	1.9	19.1	1.7	3.1	15.4	40.0	46.8	87.7	(D)	1.6	23.9
Urbana	–	36	14	2.7	29.2	2.2	4.3	22.4	107.9	71.3	170.5	(D)	2.9	70.2
Vandalia	–	24	12	4.4	79.2	3.8	7.4	64.5	185.0	159.9	342.6	11.6	3.1	74.9
Van Wert	–	31	16	4.0	55.4	3.0	6.0	37.1	130.0	173.6	300.6	4.1	3.3	73.0
Wadsworth	–	37	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Walton Hills	–	31	17	5.6	113.6	4.5	9.7	92.2	199.8	247.4	442.3	18.5	(D)	(D)
Wapakoneta	–	26	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Warren	–	69	27	17.4	299.3	13.8	26.4	225.6	703.2	382.8	1 067.4	30.4	21.2	463.0
Warrensville Heights	–	53	23	2.1	32.8	1.3	2.3	12.9	36.8	79.7	116.4	1.7	2.3	39.1
Washington	–	36	15	2.6	32.3	1.9	3.7	21.4	78.9	104.0	180.4	(D)	2.0	37.0
Wauseon	–	29	15	2.0	20.7	1.6	3.1	14.7	44.2	47.8	91.1	2.8	2.3	30.6
Waverly City	–	12	5	0.7	7.1	0.6	1.3	5.5	13.7	16.6	30.0	(D)	(D)	(D)

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
CITIES—Con.														
Wellington	-	12	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	12.8
Wellston	-	14	6	1.4	13.3	1.1	2.1	9.7	25.5	77.8	103.1	1.7	0.7	12.1
Wellsville	-	8	3	0.5	5.6	0.4	0.9	4.3	9.7	4.4	14.1	(D)	(D)	(D)
West Carrollton	-	28	12	1.9	30.8	1.4	3.2	22.6	53.3	64.1	116.3	(D)	2.0	33.1
Westerville	-	20	12	1.0	11.5	0.6	1.1	7.3	24.0	23.8	47.2	0.9	0.8	18.1
Westlake	-	38	14	1.6	19.3	1.1	2.2	12.2	38.0	47.2	82.0	2.4	1.3	25.2
Wickliffe	-	58	19	4.8	67.7	2.6	5.3	31.5	132.1	110.8	246.1	5.0	5.8	69.9
Willard	-	7	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	71.7
Willoughby	-	114	53	5.4	70.8	3.7	7.5	41.4	152.6	107.8	260.1	5.7	4.6	70.0
Wilmington	-	29	13	2.7	30.4	2.1	4.2	21.6	70.2	53.7	122.1	3.2	1.7	28.6
Woodlawn	-	46	24	1.9	24.4	1.2	2.3	13.0	49.7	53.6	102.2	3.7	1.7	24.5
Wooster	-	43	21	5.7	72.7	4.1	7.7	46.9	164.2	143.5	307.7	18.2	5.3	113.6
Worthington	-	55	15	2.3	36.4	1.0	1.8	13.1	106.5	64.3	168.9	5.8	1.5	54.9
Xenia	-	26	11	0.7	7.9	0.6	1.1	5.1	18.7	29.0	47.5	1.1	0.9	17.3
Yellow Springs	-	8	5	1.2	16.9	0.9	1.7	11.0	28.3	13.0	41.2	1.5	0.9	14.6
Youngstown	-	152	53	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17.2	378.0
Zanesville	-	67	29	6.5	88.1	5.2	9.9	50.0	165.9	197.8	362.8	11.1	7.3	116.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	All industries	-	**17 354**	**8 728**	**1 331.2**	**20 358.0**	**924.4**	**1 838.5**	**12 907.5**	**43 054.7**	**52 738.3**	**95 234.7**	**2 790.7**	**1 346.3**	**27 171.0**
20	**Food and kindred products**	-	**1 094**	**488**	**88.4**	**858.0**	**42.7**	**88.5**	**521.8**	**2 802.3**	**5 479.6**	**8 275.7**	**181.8**	**73.5**	**1 737.7**
201	Meat products	-	227	79	11.5	159.6	9.0	18.1	117.8	327.8	1 297.4	1 624.8	16.9	11.7	188.9
2011	Meat packing plants	-	137	44	7.1	106.5	5.4	11.1	76.5	193.8	907.7	1 101.2	8.6	7.8	127.8
2013	Sausages and other prepared meats	-	64	24	3.1	43.9	2.5	5.1	34.4	112.5	299.2	411.8	5.3	2.8	47.5
2016	Poultry dressing plants	E3	22	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2017	Poultry and egg processing	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
202	Dairy products	-	184	85	9.9	120.7	4.7	10.0	57.7	400.6	1 070.1	1 464.8	30.2	14.7	264.2
2022	Cheese, natural and processed	-	24	10	1.0	10.7	0.9	1.8	8.4	38.3	134.8	172.7	2.0	0.9	15.8
2023	Condensed and evaporated milk	-	11	9	1.0	13.6	0.7	1.5	10.1	85.8	187.8	272.2	(D)	0.9	39.6
2024	Ice cream and frozen desserts	-	32	10	0.7	8.8	0.5	0.9	4.9	19.4	49.2	68.8	1.1	0.7	14.5
2026	Fluid milk	-	91	52	7.0	86.1	2.6	5.6	33.4	252.1	651.6	899.7	14.6	12.0	192.4
203	Preserved fruits and vegetables	-	84	44	8.9	95.2	7.1	13.9	70.2	328.9	585.6	917.8	24.9	7.4	220.7
2032	Canned specialties	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2033	Canned fruits and vegetables	-	43	24	2.7	27.8	2.4	4.8	22.2	161.8	181.9	344.2	8.9	2.9	67.7
2035	Pickles, sauces, and salad dressings	-	19	5	0.6	5.9	0.4	0.8	3.7	18.5	29.7	50.6	(D)	CC	(D)
2038	Frozen specialties	-	15	12	3.4	33.7	2.5	4.8	23.1	14.2	173.8	188.1	10.5	1.7	55.8

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
20	**Food and kindred products**—Con.														
204	Grain mill products	–	97	40	4.8	72.8	3.6	7.7	52.6	349.7	830.5	981.7	17.9	4.2	183.9
2041	Flour and other grain mill products	–	12	6	0.4	5.7	0.3	0.6	4.0	17.9	93.5	111.7	1.4	0.4	8.5
2043	Cereal breakfast foods	–	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2045	Blended and prepared flour	–	9	4	0.6	10.2	0.5	1.0	7.7	54.2	58.5	112.3	(D)	EE	(D)
2046	Wet corn milling	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2047	Dog, cat, and other pet food	–	14	8	1.3	20.7	1.1	2.3	15.9	104.3	137.4	241.8	(D)	1.2	54.5
2048	Prepared feeds, n.e.c.	–	55	17	1.2	15.2	0.7	1.6	8.9	39.4	186.4	225.5	2.0	1.1	32.1
205	Bakery products	–	151	67	12.5	157.8	7.7	15.6	96.8	443.2	297.2	739.9	23.2	14.8	293.0
2051	Bread, cake, and related products	–	139	59	10.3	127.6	5.7	11.4	70.8	334.1	219.9	554.0	20.2	12.3	226.5
2052	Cookies and crackers	–	12	8	2.2	30.3	2.0	4.2	26.0	109.1	77.2	185.9	3.0	2.4	66.6
206	Sugar and confectionery products	–	69	18	2.2	23.5	1.6	2.9	15.0	62.3	97.8	185.1	5.6	2.7	48.9
2063	Beet sugar	–	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2065	Confectionery products	–	62	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	24.2
207	Fats and oils	–	25	17	2.2	35.5	1.3	2.9	19.6	151.5	518.0	667.1	7.4	2.5	91.4
2075	Soybean oil mills	–	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2077	Animal and marine fats and oils	–	17	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2079	Shortening and cooking oils	–	3	3	1.2	20.5	0.7	1.7	12.4	82.7	221.6	306.0	(D)	1.2	53.7
208	Beverages	–	121	70	9.5	139.9	4.6	9.3	62.8	499.9	590.0	1 084.6	25.9	10.5	318.8
2082	Malt beverages	–	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2085	Distilled liquor, except brandy	–	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2086	Bottled and canned soft drinks	E1	84	57	6.4	85.8	2.4	4.9	26.0	245.1	297.7	538.3	15.4	7.2	138.3
2087	Flavoring extracts and sirups, n.e.c.	–	21	5	0.5	7.6	0.3	0.6	3.5	97.2	62.3	158.6	2.1	0.4	42.7
209	Miscellaneous foods and kindred products	–	156	48	4.8	52.9	3.1	6.0	29.1	238.4	393.1	629.9	9.8	4.9	127.9
2092	Fresh or frozen packaged fish	–	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2095	Roasted coffee	–	10	6	0.9	10.8	0.4	0.8	4.4	95.7	197.3	291.6	0.2	1.1	38.7
2097	Manufactured ice	–	18	3	0.2	1.7	0.1	0.2	0.8	2.2	1.0	3.2	0.4	AA	(D)
2098	Macaroni and spaghetti	–	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2099	Food preparations, n.e.c.	–	113	32	3.1	33.7	2.1	4.0	19.4	131.9	134.9	266.6	7.9	3.2	79.2
21	**Tobacco products**	–	5	**2**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**CC**	**(D)**
2121	Cigars	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
22	**Textile mill products**	–	**84**	**39**	**7.2**	**83.5**	**5.2**	**10.5**	**50.6**	**181.9**	**210.7**	**391.5**	**(D)**	**9.0**	**148.7**
2231	Weaving and finishing mills, wool	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2241	Narrow fabric mills	–	6	3	0.4	3.9	0.4	0.7	2.9	8.5	6.5	14.9	(D)	0.3	4.9
225	Knitting mills	–	16	9	1.9	20.4	1.4	2.8	9.9	50.1	26.7	77.2	(D)	2.7	27.2
2253	Knit outerwear mills	–	11	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2254	Knit underwear mills	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
226	Textile finishing, except wool	–	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	8.8
2269	Finishing plants, n.e.c.	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
227	Floor covering mills	E2	6	3	0.2	1.4	0.1	0.2	0.9	3.0	4.8	7.8	0.1	(NA)	(NA)
229	Miscellaneous textile goods	–	36	19	3.6	46.2	2.4	5.1	29.8	100.5	163.2	262.1	(D)	4.4	98.6
2293	Paddings and upholstery filling	–	3	3	0.8	7.3	0.5	1.0	4.7	18.1	14.4	32.0	(D)	0.6	10.0
2295	Coated fabrics, not rubberized	–	18	12	2.5	35.5	1.6	3.4	22.5	74.3	140.4	213.6	(D)	3.5	83.9
2298	Cordage and twine	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
23	**Apparel and other textile products**	–	**369**	**145**	**19.8**	**175.9**	**16.0**	**28.1**	**122.3**	**430.2**	**398.9**	**824.1**	**9.1**	**20.6**	**294.7**
2311	Men's and boys' suits and coats	–	15	11	4.2	31.4	3.6	5.7	26.1	123.3	62.3	180.1	(D)	5.0	83.2
232	Men's and boys' furnishings	E3	29	18	1.9	13.2	1.7	3.0	9.0	24.9	19.3	43.9	(D)	2.8	40.5
2321	Men's and boys' shirts and nightwear	–	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2323	Men's and boys' neckwear	E0	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2327	Men's and boys' separate trousers	–	8	6	0.8	4.3	0.8	1.1	3.3	8.5	5.4	13.7	0.1	1.2	14.3
2328	Men's and boys' work clothing	E5	6	4	0.2	1.8	0.2	0.4	1.1	2.6	2.7	5.3	0.1	CC	(D)
2329	Men's and boys' clothing, n.e.c.	–	9	4	0.4	2.8	0.4	0.7	2.2	5.6	4.2	9.7	(D)	BB	(D)
233	Women's and misses' outerwear	–	55	31	3.9	31.9	3.1	5.3	21.3	53.4	66.4	122.2	(D)	4.3	52.3
2331	Women's and misses' blouses and waists	–	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2335	Women's and misses' dresses	E2	26	9	0.6	3.7	0.5	0.8	2.5	7.7	9.1	16.6	0.1	0.7	11.8
2337	Women's and misses' suits and coats	E4	10	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.2
2339	Women's and misses' outerwear, n.e.c.	–	14	10	1.8	18.2	1.3	2.6	12.2	24.6	42.0	69.4	(D)	EE	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
23	**Apparel and other textile products—Con.**														
236	Children's outerwear	-	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2361	Children's dresses and blouses	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
238	Miscellaneous apparel and accessories	-	29	17	2.1	19.4	1.8	2.8	11.3	39.9	28.9	68.9	(D)	2.1	24.5
2381	Fabric dress and work gloves	-	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	12.4
2385	Waterproof outer garments	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2387	Apparel belts	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2389	Apparel and accessories, n.e.c.	-	12	8	0.5	2.7	0.3	0.5	1.4	5.3	2.9	8.2	(D)	0.4	3.8
239	Miscellaneous fabricated textile products	-	232	81	7.2	78.1	5.7	10.7	52.7	178.4	212.3	387.0	(D)	8.0	87.8
2391	Curtains and draperies	-	47	11	0.8	4.5	0.5	0.8	2.8	8.2	8.8	17.1	0.2	0.7	5.8
2392	House furnishings, n.e.c.	-	28	8	1.8	11.3	1.3	2.4	7.1	24.9	46.4	71.5	(D)	1.4	17.5
2393	Textile bags	E2	9	3	0.2	1.4	0.1	0.2	0.8	2.8	3.8	6.3	0.2	0.2	1.6
2394	Canvas and related products	E1	65	11	0.8	8.3	0.6	1.0	3.9	11.2	12.4	23.6	0.4	0.9	9.0
2395	Pleating and stitching	-	16	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2396	Automotive and apparel trimmings	-	29	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2399	Fabricated textile products, n.e.c.	-	35	15	1.3	8.7	0.9	1.7	5.8	17.2	17.4	33.1	0.3	1.2	15.6
24	**Lumber and wood products**	**E1**	**854**	**175**	**13.7**	**136.2**	**11.3**	**21.2**	**95.7**	**292.0**	**408.1**	**897.2**	**18.1**	**13.8**	**197.5**
2411	Logging camps and logging contractors	E5	135	3	0.4	3.8	0.4	0.8	3.4	10.3	9.8	19.9	1.4	0.3	2.8
242	Sawmills and planing mills	E2	240	30	2.3	19.9	2.0	3.9	15.3	41.4	49.1	90.5	5.3	2.2	26.0
2421	Sawmills and planing mills, general	E2	217	25	1.9	16.0	1.7	3.2	12.5	35.2	42.1	77.2	4.7	1.4	18.5
2426	Hardwood dimension and flooring	E2	18	5	0.4	3.3	0.3	0.7	2.4	5.5	5.2	10.8	0.4	0.7	5.5
243	Millwork, plywood, and structural members	-	179	81	4.7	48.4	3.9	7.5	35.4	108.1	139.1	244.4	5.9	4.0	57.0
2431	Millwork	-	77	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	33.1
2434	Wood kitchen cabinets	E1	68	15	1.1	11.1	0.9	1.8	8.5	18.0	14.2	31.8	0.6	0.9	9.8
2435	Hardwood veneer and plywood	-	3	2	0.2	2.2	0.2	0.3	1.9	7.7	8.5	18.0	(D)	AA	(D)
2439	Structural wood members, n.e.c.	E1	32	14	0.7	6.1	0.5	1.0	4.1	17.0	23.5	40.0	1.1	CC	(D)
244	Wood containers	E1	126	25	1.5	13.4	1.3	2.5	10.2	23.5	31.0	54.2	1.5	1.6	16.5
2448	Wood pallets and skids	E2	102	21	1.3	11.4	1.1	2.1	8.7	20.2	27.5	47.4	1.4	0.9	10.1
245	Wood buildings and mobile homes	-	41	25	2.0	23.2	1.8	2.8	15.0	49.7	112.5	161.7	1.8	3.1	53.8
2451	Mobile homes	-	9	8	0.8	8.8	0.7	1.2	6.2	17.5	40.4	57.8	0.7	1.8	23.4
2452	Prefabricated wood buildings	-	32	17	1.1	14.7	0.9	1.6	8.8	32.2	72.1	104.1	0.9	1.8	30.4
249	Miscellaneous wood products	-	133	31	2.8	27.4	2.1	3.8	18.4	58.9	66.8	128.5	2.5	2.6	41.5
2491	Wood preserving	-	6	3	0.2	2.7	0.2	0.4	1.9	5.8	13.1	18.8	0.7	BB	(D)
2499	Wood products, n.e.c.	-	127	28	2.8	24.7	1.9	3.4	14.8	53.3	53.7	107.8	1.7	2.2	34.0
25	**Furniture and fixtures**	**-**	**307**	**111**	**17.5**	**198.5**	**14.1**	**28.3**	**142.8**	**366.7**	**356.5**	**720.3**	**13.6**	**17.3**	**272.1**
251	Household furniture	-	134	54	8.4	79.3	7.0	12.8	58.3	152.9	175.9	327.2	(D)	8.1	115.2
2511	Wood household furniture	-	55	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	29.8
2512	Upholstered household furniture	-	22	7	1.1	12.4	0.9	1.7	8.9	20.9	18.3	39.0	0.6	1.7	22.8
2514	Metal household furniture	-	17	10	2.0	18.1	1.6	2.7	12.8	33.4	48.1	78.8	0.9	1.2	17.8
2515	Mattresses and bedsprings	-	32	19	1.8	19.5	1.4	2.8	13.4	42.1	82.2	104.6	0.7	2.1	33.2
2517	Wood TV and radio cabinets	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2519	Household furniture, n.e.c.	-	5	4	0.7	8.3	0.6	1.2	4.8	13.3	18.8	29.9	(D)	CC	(D)
252	Office furniture	-	20	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	58.0
2521	Wood office furniture	E1	8	2	0.2	2.4	0.2	0.3	1.7	3.9	2.9	8.8	0.2	CC	(D)
2522	Metal office furniture	-	12	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2531	Public building and related furniture	-	22	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	10.5
254	Partitions and fixtures	-	105	33	4.3	58.8	3.4	6.3	41.9	110.4	95.0	202.7	(D)	4.2	71.1
2541	Wood partitions and fixtures	E1	71	15	1.2	15.8	0.9	1.7	10.0	28.7	19.5	45.4	(D)	1.3	20.2
2542	Metal partitions and fixtures	-	34	18	3.1	42.9	2.5	4.8	31.8	83.7	75.8	157.3	2.8	2.9	50.8
259	Miscellaneous furniture and fixtures	-	28	7	0.8	5.8	0.4	0.8	3.4	10.1	8.7	18.9	(D)	1.1	17.4
2599	Furniture and fixtures, n.e.c.	-	14	5	0.5	4.8	0.4	0.7	3.0	8.8	7.5	16.4	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
26	**Paper and allied products**	-	**408**	**258**	**38.7**	**510.2**	**27.4**	**56.7**	**350.7**	**1 040.4**	**1 456.3**	**2 496.7**	**108.8**	**37.0**	**672.1**
2621	Paper mills, except building paper	-	19	16	7.2	121.3	5.5	12.4	90.8	241.8	363.8	811.0	38.3	FF	(D)
2631	Paperboard mills	-	20	20	2.7	45.0	2.3	5.2	35.7	102.8	132.3	238.4	18.8	2.8	81.9
264	Miscellaneous converted paper products	-	170	81	11.5	147.8	7.7	15.6	85.5	315.3	368.8	682.8	24.4	10.1	187.8
2641	Paper coating and glazing	-	40	21	5.4	76.7	3.0	8.2	38.8	171.7	188.2	360.2	15.8	4.5	99.1
2642	Envelopes	-	14	9	1.5	17.4	1.1	2.3	11.8	31.8	32.8	63.9	1.1	1.4	19.2
2643	Bags, except textile bags	-	28	19	2.0	24.3	1.5	3.1	15.0	45.9	70.5	116.4	2.8	1.5	25.8
2645	Die-cut paper and board	E3	33	14	1.3	14.2	1.1	2.1	10.4	28.7	35.6	81.6	2.1	1.2	17.4
2646	Pressed and molded pulp goods	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2648	Stationery products	-	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	8.4
2649	Converted paper products, n.e.c.	-	46	13	1.0	10.9	0.7	1.3	6.5	28.9	33.0	61.6	2.4	CC	(D)
265	Paperboard containers and boxes	-	195	138	15.1	193.8	11.7	23.3	136.8	374.5	585.1	953.9	28.7	18.1	255.9
2651	Folding paperboard boxes	-	47	34	5.0	62.9	4.1	8.2	48.1	122.2	159.5	277.1	8.0	4.7	80.0
2652	Setup paperboard boxes	-	12	9	0.4	3.8	0.4	0.7	2.7	7.0	4.0	11.1	0.3	0.5	4.7
2653	Corrugated and solid fiber boxes	-	101	70	7.4	100.8	5.5	10.9	66.2	190.5	324.3	515.1	14.1	8.6	134.7
2654	Sanitary food containers	-	10	7	0.7	7.9	0.8	1.0	5.7	19.8	45.2	64.3	2.8	0.9	15.4
2655	Fiber cans, drums, and similar products	-	25	18	1.5	18.2	1.3	2.5	14.1	34.9	52.2	88.4	3.7	1.4	21.1
27	**Printing and publishing**	-	**2 081**	**483**	**60.0**	**788.7**	**37.0**	**70.2**	**464.2**	**1 687.2**	**950.4**	**2 627.0**	**86.4**	**63.2**	**1 200.9**
2711	Newspapers	-	338	121	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	19.2	346.7
2721	Periodicals	-	80	21	2.9	33.5	0.6	1.2	7.8	128.2	55.2	181.9	2.2	3.0	84.8
273	Books	-	74	20	4.1	55.4	2.1	4.5	26.5	192.3	81.5	271.2	4.5	4.8	111.5
2731	Book publishing	-	38	10	2.4	31.9	0.7	1.6	8.2	146.4	53.7	197.8	2.8	2.9	84.6
2732	Book printing	-	38	10	1.7	23.5	1.4	2.9	18.3	45.9	27.8	73.4	1.7	1.6	26.9
2741	Miscellaneous publishing	-	58	14	1.4	15.7	0.7	1.3	6.0	31.7	23.2	54.5	1.0	EE	(D)
275	Commercial printing	-	1 276	219	23.4	311.3	18.2	34.0	223.6	533.4	435.2	966.2	42.4	25.0	402.6
2751	Commercial printing, letterpress	E1	869	72	9.1	119.0	7.3	13.9	91.1	194.0	180.7	375.3	20.5	9.7	149.2
2752	Commercial printing, lithographic	-	563	136	13.1	173.7	9.8	18.1	117.6	303.8	222.6	523.8	19.9	13.5	226.3
2753	Engraving and plate printing	E1	19	6	0.3	3.2	0.2	0.4	2.2	8.6	2.0	8.6	0.2	0.4	5.2
2754	Commercial printing, gravure	-	25	5	1.0	15.4	0.9	1.6	12.8	29.0	29.9	58.6	1.7	1.4	21.9
2761	Manifold business forms	-	36	21	3.6	46.9	2.8	5.6	35.6	125.4	109.8	233.9	6.9	3.2	78.7
2771	Greeting card publishing	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
278	Blankbooks and bookbinding	-	52	24	1.8	17.0	1.4	2.5	12.6	31.5	10.2	41.5	1.4	1.5	18.6
2782	Blankbooks and looseleaf binders	-	17	9	0.8	9.4	0.8	1.2	6.7	19.0	6.9	25.9	1.1	0.6	9.8
2789	Bookbinding and related work	-	35	15	0.9	7.6	0.7	1.3	5.9	12.5	3.3	15.6	0.3	0.9	8.7
279	Printing trade services	-	187	40	2.4	36.8	1.7	3.0	25.7	57.9	17.3	74.5	2.8	2.5	42.0
2791	Typesetting	-	91	14	1.0	13.4	0.8	1.3	9.7	22.4	3.1	25.3	1.2	1.2	17.9
2793	Photoengraving	-	14	5	0.2	2.7	0.1	0.2	1.8	4.6	1.4	6.0	(D)	0.4	7.0
2795	Lithographic platemaking services	-	56	20	1.1	19.9	0.8	1.4	13.8	29.9	11.8	41.3	1.5	0.8	15.5
28	**Chemicals and allied products**	-	**705**	**284**	**45.5**	**712.4**	**27.4**	**55.1**	**388.0**	**3 209.0**	**3 578.1**	**6 758.3**	**232.0**	**48.0**	**1 977.7**
281	Industrial inorganic chemicals	-	98	31	8.9	144.0	5.4	10.8	81.1	452.3	496.7	951.2	38.1	8.9	253.0
2812	Alkalies and chlorine	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2813	Industrial gases	-	48	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	40.8
2816	Inorganic pigments	-	11	6	1.4	22.1	0.8	1.7	11.9	40.4	83.1	126.4	4.5	CC	(D)
2819	Industrial inorganic chemicals, n.e.c.	-	37	17	5.8	92.3	3.6	7.0	52.2	294.1	335.9	630.3	9.4	4.5	124.4
282	Plastics materials and synthetics	-	33	25	5.3	88.1	3.7	7.8	57.1	306.4	599.4	904.9	53.6	7.0	240.0
2821	Plastics materials and resins	-	28	22	4.1	68.1	2.8	5.8	44.9	273.5	515.0	785.8	49.2	FF	(D)
2822	Synthetic rubber	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2824	Organic fibers, noncellulosic	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
283	Drugs	-	41	12	2.9	45.8	0.9	1.7	9.6	107.6	64.2	172.2	3.9	3.0	93.1
2631	Biological products	E2	13	3	0.2	2.1	0.1	0.2	0.9	5.6	3.2	8.8	0.3	(NA)	(NA)
2834	Pharmaceutical preparations	-	23	9	2.7	43.3	0.8	1.5	8.5	100.6	58.8	159.9	3.6	FF	(D)
284	Soaps, cleaners, and toilet goods	-	124	37	8.9	110.3	4.8	9.8	69.0	1 132.9	680.0	1 811.1	24.2	7.0	732.0
2841	Soap and other detergents	-	38	15	2.8	48.2	1.9	3.8	30.3	250.7	295.9	547.0	12.5	3.0	207.6
2842	Polishes and sanitation goods	-	52	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2844	Toilet preparations	-	31	9	2.8	42.9	1.9	4.1	27.0	656.0	189.8	844.0	8.0	2.8	398.3
2851	Paints and allied products	-	97	55	5.8	86.5	3.0	6.3	39.3	282.4	392.2	669.6	7.6	6.6	175.1

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
28	**Chemicals and allied products**—Con.														
286	Industrial organic chemicals	-	46	28	5.4	91.4	3.5	7.0	55.9	402.3	613.2	991.7	66.9	5.5	169.6
2865	Cyclic crudes and intermediates	-	13	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2869	Industrial organic chemicals, n.e.c.	-	31	17	2.9	52.0	1.8	3.8	30.6	275.9	376.2	634.2	50.4	3.1	99.6
287	Agricultural chemicals	-	66	21	2.6	39.2	1.4	2.8	18.4	186.2	326.6	517.6	13.5	2.3	114.1
2873	Nitrogenous fertilizers	-	5	3	0.8	13.4	0.5	0.9	8.1	21.9	75.8	94.1	(D)	CC	(D)
2875	Fertilizers, mixing only	-	43	14	1.5	22.0	0.8	1.5	8.4	131.5	221.3	361.3	5.0	1.2	74.4
2879	Agricultural chemicals, n.e.c.	-	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	16.0
289	Miscellaneous chemical products	-	202	75	7.7	107.1	4.8	9.1	55.6	339.0	403.8	739.9	24.4	7.8	200.8
2891	Adhesives and sealants	-	42	22	2.2	30.8	1.3	2.5	14.1	82.9	110.8	191.7	3.5	1.9	53.3
2892	Explosives	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2893	Printing ink	-	31	15	1.0	13.1	0.6	1.1	7.3	32.0	44.8	76.8	1.9	1.1	24.2
2899	Chemical preparations, n.e.c.	-	123	33	3.9	56.3	2.4	4.6	29.4	206.4	221.6	427.1	18.1	4.2	112.8
29	**Petroleum and coal products**	-	**163**	**82**	**7.4**	**124.7**	**4.8**	**10.0**	**75.5**	**845.5**	**3 333.3**	**3 953.7**	**47.6**	**6.2**	**310.9**
2911	Petroleum refining	-	10	9	2.6	55.6	1.9	3.8	38.1	456.6	3 015.2	3 448.0	36.1	2.9	215.5
295	Paving and roofing materials	-	118	37	3.8	54.8	2.5	5.2	31.4	142.4	215.0	356.1	10.1	2.6	69.8
2951	Paving mixtures and blocks	-	94	18	1.1	15.9	0.9	1.7	11.8	41.8	112.8	154.2	6.1	1.0	26.1
2952	Asphalt felts and coatings	-	24	19	2.7	38.9	1.6	3.4	19.6	100.6	102.3	201.9	4.0	1.7	43.7
299	Miscellaneous petroleum and coal products	-	35	16	1.0	14.3	0.5	0.9	5.9	46.5	103.1	149.6	1.4	0.8	25.6
2992	Lubricating oils and greases	-	34	15	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	22.5
2999	Petroleum and coal products, n.e.c.	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.1
30	**Rubber and miscellaneous plastics products**	-	**863**	**478**	**98.3**	**1 384.2**	**73.2**	**145.0**	**909.1**	**2 658.8**	**2 826.3**	**5 390.8**	**220.1**	**95.8**	**1 995.8**
3011	Tires and inner tubes	-	21	16	21.8	382.8	14.7	29.7	250.8	621.1	819.1	1 372.5	57.1	26.9	758.3
3021	Rubber and plastics footwear	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3041	Rubber and plastics hose and belting	-	13	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.6	134.4
3069	Fabricated rubber products, n.e.c.	-	172	105	22.4	310.1	17.4	34.7	219.7	572.6	525.6	1 092.2	31.5	22.6	387.0
3079	Miscellaneous plastics products	-	653	342	45.3	528.4	36.5	71.8	377.3	1 224.7	1 236.9	2 448.7	121.3	37.2	706.2
31	**Leather and leather products**	-	**55**	**23**	**4.0**	**30.4**	**3.3**	**6.1**	**23.2**	**56.7**	**47.2**	**112.0**	**0.8**	**FF**	**(D)**
3111	Leather tanning and finishing	-	7	5	0.2	2.0	0.2	0.4	1.6	3.0	8.2	11.3	(D)	0.2	2.2
314	Footwear, except rubber	-	12	9	3.2	23.1	2.6	4.8	18.3	42.8	30.9	81.6	(D)	FF	(D)
3142	House slippers	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3143	Men's footwear, except athletic	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3144	Women's footwear, except athletic	-	8	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3181	Luggage	E1	10	4	0.3	2.4	0.3	0.5	1.6	5.1	3.5	8.5	(D)	AA	(D)
317	Handbags and other personal leather goods	E6	8	3	0.2	1.9	0.2	0.3	1.1	3.7	2.7	6.4	(D)	0.2	1.9
3172	Personal leather goods	E6	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
32	**Stone, clay, and glass products**	-	**1 081**	**403**	**59.0**	**779.6**	**47.8**	**94.0**	**585.6**	**1 774.8**	**1 302.7**	**3 066.8**	**129.2**	**61.6**	**1 254.4**
3211	Flat glass	-	4	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
322	Glass and glassware, pressed or blown	-	38	22	13.4	176.7	11.0	21.0	137.1	395.5	211.3	605.4	35.8	14.0	268.4
3221	Glass containers	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3229	Pressed and blown glass, n.e.c.	-	36	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3231	Products of purchased glass	-	69	29	3.3	42.9	2.8	5.5	33.1	108.9	94.6	199.8	4.6	4.2	99.2
3241	Cement, hydraulic	-	8	5	0.9	16.2	0.7	1.5	12.1	35.0	40.0	76.1	3.7	1.4	37.7
325	Structural clay products	-	114	81	6.7	76.7	5.5	11.4	57.2	154.3	98.3	255.0	5.9	7.6	112.3
3251	Brick and structural clay tile	-	31	29	1.9	19.6	1.8	3.2	15.3	39.7	26.8	68.5	1.7	2.4	34.1
3253	Ceramic wall and floor tile	-	12	9	1.3	13.6	1.1	2.2	10.0	30.4	10.5	40.7	0.6	EE	(D)
3255	Clay refractories	-	47	27	2.2	26.9	1.7	4.0	19.5	55.5	42.1	98.3	2.2	EE	(D)
3259	Structural clay products, n.e.c.	-	24	18	1.3	16.5	1.1	2.0	12.4	28.8	18.8	47.5	1.3	2.1	27.0

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
32	**Stone, clay, and glass products**—Con.														
326	Pottery and related products	–	72	37	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3261	Vitreous plumbing fixtures	–	7	5	1.6	21.2	1.3	2.8	15.8	54.8	25.2	79.5	1.8	EE	(D)
3262	Vitreous china food utensils	–	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3263	Fine earthenware food utensils	–	6	6	1.9	14.5	1.7	3.0	12.3	24.8	8.7	33.2	(D)	EE	(D)
3264	Porcelain electrical supplies	–	8	6	1.3	17.3	1.0	1.8	12.9	33.8	18.7	50.8	1.5	EE	(D)
3269	Pottery products, n.e.c.	E1	47	18	1.8	14.0	1.8	3.0	10.7	25.9	11.7	38.8	1.2	2.0	21.7
327	Concrete, gypsum, and plaster products	E1	531	138	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.0	211.1
3271	Concrete block and brick	–	68	17	1.0	12.5	0.8	1.1	8.0	27.5	31.8	59.5	2.1	1.2	27.6
3272	Concrete products, n.e.c.	E1	194	43	3.3	41.3	2.5	5.1	28.2	86.6	81.1	147.5	9.2	3.6	87.4
3273	Ready-mixed concrete	E1	252	64	4.0	55.4	2.8	5.6	36.3	125.0	172.7	297.5	14.8	3.9	84.2
3274	Lime	–	10	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	19.2
3275	Gypsum products	–	7	5	0.5	6.6	0.4	0.8	5.3	15.1	23.0	38.1	0.9	0.4	12.8
3281	Cut stone and stone products	E1	54	6	0.6	6.2	0.5	1.1	5.0	14.3	7.7	22.0	0.5	CC	(D)
329	Miscellaneous nonmetallic mineral products	–	191	83	12.5	169.9	9.8	18.8	120.0	467.1	348.1	811.8	36.4	11.8	271.8
3291	Abrasive products	–	43	25	3.3	44.2	2.4	4.6	27.2	142.8	77.3	217.6	11.7	2.6	71.1
3292	Asbestos products	–	7	2	0.3	4.0	0.2	0.5	2.5	6.7	10.0	18.4	(Z)	1.0	20.0
3293	Gaskets, packing, and sealing devices	–	37	17	2.0	22.3	1.6	3.0	15.3	48.5	31.3	79.3	2.4	1.7	28.2
3295	Minerals, ground or treated	–	35	12	0.8	12.1	0.6	1.2	8.5	30.8	23.4	54.0	2.9	0.7	19.2
3296	Mineral wool	–	13	9	3.9	57.8	3.3	6.5	47.5	152.1	121.6	274.7	(D)	4.1	86.3
3297	Nonclay refractories	–	20	11	1.4	20.2	0.9	1.7	11.9	61.0	70.5	130.5	6.1	1.1	38.3
3299	Nonmetallic mineral products, n.e.c.	–	36	7	0.9	9.3	0.7	1.3	7.1	25.3	12.0	37.3	(D)	0.5	8.7
33	**Primary metal industries**	–	659	403	142.8	2 548.8	116.4	228.4	1 998.9	5 505.7	7 799.2	13 281.0	389.8	148.2	3 235.3
331	Blast furnace and basic steel products	–	118	93	84.3	1 613.2	68.5	131.8	1 273.8	3 664.0	5 614.3	9 289.9	241.1	88.5	2 235.0
3312	Blast furnaces and steel mills	–	42	29	67.8	1 340.4	55.8	106.4	1 073.3	3 038.8	4 375.6	7 443.9	168.2	73.3	1 882.9
3313	Electrometallurgical products	–	9	8	3.4	55.2	2.7	5.3	41.0	106.5	250.9	355.8	22.2	FF	(D)
3315	Steel wire and related products	–	25	20	3.6	52.8	2.7	5.6	37.9	109.4	163.1	266.8	9.8	2.7	60.2
3316	Cold finishing of steel shapes	–	20	16	4.2	75.9	3.0	5.9	52.9	224.4	522.4	739.4	(D)	3.9	105.7
3317	Steel pipe and tubes	–	22	20	5.4	88.9	4.3	8.7	68.7	184.9	302.3	483.9	(D)	FF	(D)
332	Iron and steel foundries	–	144	109	31.5	534.6	26.5	54.0	433.3	1 046.7	689.3	1 723.6	92.3	30.4	542.0
3321	Gray iron foundries	–	95	76	21.3	388.9	18.1	37.8	317.9	803.0	555.7	1 346.5	75.8	19.6	378.8
3322	Malleable iron foundries	–	6	6	2.6	36.3	2.3	4.0	31.0	44.8	33.4	78.0	(D)	FF	(D)
3324	Steel investment foundries	E1	11	6	0.7	7.8	0.5	1.1	5.6	12.4	6.0	18.1	(D)	BB	(D)
3325	Steel foundries, n.e.c.	–	32	21	6.9	101.6	5.6	11.1	78.8	186.5	94.1	280.9	12.4	6.9	101.3
333	Primary nonferrous metals	–	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	5.6
3334	Primary aluminum	–	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3339	Primary nonferrous metals, n.e.c.	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3341	Secondary nonferrous metals	–	33	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	32.6
335	Nonferrous rolling and drawing	–	50	38	8.5	139.3	6.4	12.9	97.5	272.8	691.6	951.9	21.0	9.9	154.4
3351	Copper rolling and drawing	–	9	8	1.9	31.8	1.5	3.0	23.0	40.3	169.1	212.8	2.5	2.1	25.6
3353	Aluminum sheet, plate, and foil	–	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3354	Aluminum extruded products	–	16	15	1.5	19.2	1.2	2.4	13.8	42.5	78.8	119.8	3.3	1.7	26.6
3355	Aluminum rolling and drawing, n.e.c.	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3356	Nonferrous rolling and drawing, n.e.c.	–	10	6	2.3	40.4	1.5	3.2	24.8	78.3	158.8	232.7	4.6	2.6	42.1
3357	Nonferrous wire drawing and insulating	–	12	6	0.6	7.3	0.5	1.0	5.3	15.8	32.2	47.2	0.5	CC	(D)
336	Nonferrous foundries	–	191	97	12.0	160.6	9.9	19.1	120.0	318.8	277.3	593.5	14.8	12.9	219.6
3361	Aluminum foundries	–	121	63	8.7	119.4	7.2	14.0	91.1	228.6	200.1	425.5	11.8	8.9	146.6
3362	Brass, bronze, and copper foundries	E1	39	17	0.9	10.4	0.7	1.5	8.0	23.7	24.5	47.2	1.0	1.2	18.8
3369	Nonferrous foundries, n.e.c.	–	31	17	2.4	30.8	1.9	3.7	21.0	66.5	52.8	120.8	2.0	2.8	54.2
339	Miscellaneous primary metal products	–	120	45	2.7	34.5	2.2	4.3	22.6	73.8	133.7	207.0	8.9	2.7	46.1
3398	Metal heat treating	–	93	37	2.2	27.6	1.8	3.5	18.3	57.5	115.6	173.4	8.1	2.0	32.2
3399	Primary metal products, n.e.c.	E2	27	8	0.5	6.9	0.4	0.8	4.2	18.3	18.0	33.6	0.8	0.8	13.9
34	**Fabricated metal products**	–	2 378	1 113	164.5	2 483.3	127.2	255.8	1 779.8	5 398.8	5 701.4	11 035.8	318.8	156.5	3 142.5
341	Metal cans and shipping containers	–	47	36	5.5	82.9	4.5	9.3	63.1	266.9	368.3	633.7	25.6	4.8	128.5
3411	Metal cans	–	24	21	4.4	66.2	3.8	7.5	51.8	231.5	314.3	542.7	23.8	3.3	101.8
3412	Metal barrels, drums, and pails	–	23	15	1.1	16.7	0.9	1.8	11.3	35.5	54.0	91.0	1.8	1.5	26.8

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
34	**Fabricated metal products**—Con.														
342	Cutlery, hand tools, and hardware	–	156	83	16.1	265.9	13.2	26.8	206.8	625.3	407.9	1 027.3	43.9	16.1	417.5
3421	Cutlery	–	9	5	0.6	8.0	0.5	1.0	5.7	17.4	11.3	28.1	(D)	0.6	9.3
3423	Hand and edge tools, n.e.c.	–	68	36	5.7	73.5	4.5	8.9	53.3	209.4	121.5	330.3	9.0	5.2	112.4
3425	Hand saws and saw blades	–	11	5	0.4	4.7	0.4	0.7	3.4	10.3	6.7	17.2	0.6	0.4	4.6
3429	Hardware, n.e.c.	–	68	37	9.3	179.8	7.9	16.3	144.5	388.2	268.5	651.7	(D)	9.9	291.2
343	Plumbing and heating, except electric	–	54	24	3.7	54.3	2.5	5.0	29.5	113.7	130.2	239.1	3.1	5.4	104.8
3431	Metal sanitary ware	–	8	3	1.0	11.8	0.8	1.5	9.9	30.2	26.2	56.4	0.6	1.5	25.6
3432	Plumbing fittings and brass goods	–	20	11	1.8	27.5	1.1	2.3	12.2	50.8	70.6	116.1	0.7	2.5	44.6
3433	Heating equipment, except electric	–	26	10	0.9	15.1	0.6	1.2	7.4	32.7	33.4	66.5	1.8	1.4	34.6
344	Fabricated structural metal products	–	596	264	32.0	419.2	23.2	44.4	277.2	969.3	1 226.5	2 201.1	40.8	32.2	576.6
3441	Fabricated structural metal	–	136	62	4.2	54.8	3.0	5.7	32.9	106.2	122.8	227.5	6.0	5.4	88.9
3442	Metal doors, sash, and trim	–	74	33	4.4	50.5	3.3	6.2	33.0	111.6	127.0	235.1	5.1	6.5	117.2
3443	Fabricated plate work (boiler shops)	–	117	63	10.8	150.5	7.9	15.1	101.7	358.1	357.5	732.3	15.7	8.9	166.7
3444	Sheet metal work	–	163	63	8.4	105.3	6.0	11.5	73.8	248.7	433.3	676.5	10.9	6.8	129.2
3446	Architectural metal work	–	63	21	1.9	24.7	1.4	2.7	15.5	52.2	62.3	115.3	0.9	2.1	26.4
3448	Prefabricated metal buildings	–	16	9	1.0	16.4	0.8	1.6	10.8	43.7	64.5	107.5	0.7	1.1	24.3
3449	Miscellaneous metal work	–	27	13	1.2	17.0	0.8	1.6	9.5	48.6	59.1	107.0	1.5	1.5	25.9
345	Screw machine products, bolts, etc.	–	258	136	12.5	171.5	9.8	19.8	118.9	359.4	301.2	662.9	19.1	14.0	268.7
3451	Screw machine products	–	175	85	5.5	66.0	4.6	9.3	48.0	135.4	103.3	235.5	7.2	4.7	70.7
3452	Bolts, nuts, rivets, and washers	–	83	51	7.0	105.5	5.2	10.4	70.9	223.9	197.9	427.4	11.8	9.3	198.1
346	Metal forgings and stampings	–	402	251	53.8	953.6	44.7	93.0	749.7	1 856.8	2 048.5	3 872.7	136.7	50.0	1 014.6
3462	Iron and steel forgings	–	54	44	7.8	135.5	6.4	12.7	104.7	258.3	369.0	628.1	25.4	FF	(D)
3463	Nonferrous forgings	–	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3465	Automotive stampings	–	109	81	32.0	637.6	27.2	58.9	517.9	1 174.2	1 294.4	2 451.8	92.2	28.9	644.7
3469	Metal stampings, n.e.c.	–	233	124	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.5	196.4
347	Metal services, n.e.c.	–	392	108	8.3	94.8	6.7	13.2	66.1	212.8	305.7	517.1	9.6	7.1	105.5
3471	Plating and polishing	–	284	75	5.3	55.1	4.4	8.7	38.4	106.8	56.0	162.0	5.4	5.3	83.2
3479	Metal coating and allied services	–	108	33	3.0	39.7	2.4	4.5	27.7	106.0	249.7	355.1	4.2	1.8	22.3
348	Ordnance and accessories, n.e.c.	–	15	9	3.9	61.4	2.1	4.1	28.4	84.2	31.0	118.8	1.8	2.1	29.5
3483	Ammunition, except for small arms, n.e.c.	–	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3489	Ordnance and accessories, n.e.c.	–	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
349	Miscellaneous fabricated metal products	–	456	202	28.7	379.6	20.6	40.2	240.0	910.3	882.2	1 763.2	38.2	24.8	496.8
3493	Steel springs, except wire	–	11	4	0.5	7.1	0.4	0.8	5.3	14.2	14.8	29.3	0.6	BB	(D)
3494	Valves and pipe fittings	–	84	54	11.9	162.6	8.3	16.8	101.8	409.1	378.5	765.4	21.0	8.0	166.6
3495	Wire springs	–	29	15	1.2	12.8	1.0	2.1	9.1	27.7	27.3	54.9	1.4	1.3	18.3
3496	Miscellaneous fabricated wire products	–	71	28	2.0	22.3	1.6	3.1	13.7	41.1	37.9	78.4	1.6	2.4	37.2
3497	Metal foil and leaf	–	9	9	1.9	26.7	1.4	2.7	18.4	71.1	102.5	173.4	2.4	EE	(D)
3498	Fabricated pipe and fittings	–	30	14	1.8	23.0	1.3	2.4	14.7	76.0	78.4	151.4	1.9	EE	(D)
3499	Fabricated metal products, n.e.c.	–	222	78	9.3	125.1	6.6	12.3	76.9	271.0	243.0	510.5	9.2	9.3	193.6
35	**Machinery, except electrical**	–	**3 683**	**1 111**	**197.3**	**2 945.0**	**139.2**	**277.8**	**1 921.4**	**5 989.2**	**4 889.7**	**10 786.5**	**333.0**	**198.6**	**3 943.1**
351	Engines and turbines	–	19	12	4.0	65.3	3.1	6.2	48.6	185.6	154.3	317.6	(D)	FF	(D)
3519	Internal combustion engines, n.e.c.	–	14	10	3.9	64.4	3.0	6.0	48.0	183.8	151.7	313.4	(D)	FF	(D)
352	Farm and garden machinery	–	72	34	4.4	53.9	3.4	8.9	36.6	117.7	147.0	263.2	5.8	5.4	119.1
3523	Farm machinery and equipment	–	58	24	3.0	40.9	2.2	4.2	27.3	85.0	85.9	172.9	4.0	2.9	51.7
3524	Lawn and garden equipment	–	14	10	1.4	13.0	1.1	2.8	9.2	32.7	61.1	90.3	1.8	2.4	67.4
353	Construction and related machinery	–	239	134	32.0	495.9	21.3	41.5	305.1	1 039.6	1 022.3	2 063.1	48.8	28.0	517.0
3531	Construction machinery	–	75	44	15.2	257.3	10.5	20.0	168.2	518.9	606.6	1 120.6	26.9	14.1	282.8
3532	Mining machinery	–	26	15	3.4	39.7	2.1	4.0	24.3	97.4	86.4	182.9	5.6	2.2	42.0
3533	Oil field machinery	E1	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3534	Elevators and moving stairways	–	13	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	16.8
3535	Conveyors and conveying equipment	–	44	27	2.9	37.2	1.8	3.8	20.2	92.5	65.1	154.9	4.0	2.2	39.6
3536	Hoists, cranes, and monorails	–	28	19	3.3	47.5	2.1	4.2	25.4	80.8	78.0	167.0	3.0	2.9	45.6
3537	Industrial trucks and tractors	–	46	20	6.3	99.5	4.4	8.5	60.7	182.3	160.5	345.8	6.1	5.3	88.4

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
35	**Machinery, except electrical**—Con.													
354	Metalworking machinery	–	1 144	349	47.9	746.1	33.5	69.2	477.8	1 423.7	725.5	2 128.7	60.2	48.3	825.7
3541	Machine tools, metal cutting types	–	95	40	13.9	214.6	7.5	15.0	112.4	388.9	225.8	823.9	17.5	12.4	186.1
3542	Machine tools, metal forming types	–	34	19	4.6	69.2	3.1	6.2	39.4	167.3	94.8	255.1	5.3	5.1	103.0
3544	Special dies, tools, jigs, and fixtures	E1	795	188	14.4	231.0	11.9	25.9	175.2	367.8	146.9	505.3	20.3	13.8	241.5
3545	Machine tool accessories	–	136	56	7.8	116.9	5.9	11.7	76.6	231.1	100.6	329.4	7.9	6.5	123.8
3546	Power driven hand tools	–	16	12	2.7	39.9	1.8	3.8	23.8	90.9	33.5	122.3	5.5	EE	(D)
3547	Rolling mill machinery	–	15	11	2.7	44.9	2.2	3.9	33.9	118.3	92.0	201.2	1.7	FF	(D)
3549	Metalworking machinery, n.e.c.	–	53	23	1.9	29.5	1.2	2.7	16.6	59.4	32.2	89.8	1.9	1.8	27.0
355	Special industry machinery	–	275	139	19.4	281.3	12.4	24.9	183.1	554.3	453.7	988.3	23.5	FF	(D)
3551	Food products machinery	–	47	26	4.3	58.7	2.6	5.2	32.4	127.4	108.1	224.7	5.4	FF	(D)
3552	Textile machinery	–	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3553	Woodworking machinery	–	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3554	Paper industries machinery	–	13	5	0.7	9.9	0.4	0.7	5.1	25.8	16.8	41.3	0.5	1.3	19.7
3555	Printing trades machinery	–	37	12	2.0	29.0	1.4	2.7	17.8	56.0	31.8	90.0	2.1	2.3	44.6
3559	Special industry machinery, n.e.c.	–	161	87	11.7	173.2	7.6	15.4	102.8	322.6	279.9	593.7	14.9	11.8	239.5
356	General industrial machinery	–	435	168	40.3	599.4	28.2	54.4	389.8	1 197.4	1 008.8	2 178.2	68.4	31.6	574.5
3561	Pumps and pumping equipment	–	51	26	9.3	129.9	5.9	11.8	75.5	291.5	195.5	476.0	15.7	6.9	129.2
3562	Ball and roller bearings	–	11	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3563	Air and gas compressors	–	11	8	4.5	58.6	2.8	5.2	30.5	128.3	123.1	247.3	3.5	FF	(D)
3564	Blowers and fans	–	41	24	3.4	42.2	2.5	4.7	28.2	85.9	73.8	159.2	4.6	2.6	45.9
3565	Industrial patterns	E1	123	16	1.1	17.6	1.0	2.0	14.2	28.1	9.0	36.8	1.8	CC	(D)
3566	Speed changers, drives, and gears	–	26	16	2.7	37.4	1.9	3.6	23.5	83.0	45.5	128.7	8.0	1.6	28.5
3567	Industrial furnaces and ovens	–	37	16	2.1	31.4	1.1	2.1	14.1	74.8	50.3	123.6	2.5	2.3	42.0
3568	Power transmission equipment, n.e.c.	–	30	23	2.3	30.8	1.7	3.3	20.9	65.4	44.6	109.4	3.4	1.8	35.5
3569	General industrial machinery, n.e.c.	–	105	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	39.7
357	Office and computing machines	–	39	21	7.3	89.7	4.4	8.0	48.0	212.8	192.0	412.8	(D)	15.6	325.1
3573	Electronic computing equipment	–	13	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3574	Calculating and accounting machines	–	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3576	Scales and balances, except laboratory	–	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3579	Office machines, n.e.c. and typewriters	–	12	10	2.2	27.7	1.7	3.1	18.2	49.5	27.9	80.4	1.3	FF	(D)
358	Refrigeration and service machinery	–	129	59	24.1	385.7	18.8	38.0	277.9	789.6	938.8	1 711.7	66.4	33.1	844.9
3581	Automatic merchandising machines	E1	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3582	Commercial laundry equipment	–	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3585	Refrigeration and heating equipment	–	53	34	20.9	325.4	16.8	33.8	254.3	693.9	861.1	1 542.4	63.9	30.9	795.5
3589	Service industry machinery, n.e.c.	–	66	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	37.0
359	Miscellaneous machinery, except electrical	E1	1 331	195	17.9	247.8	14.1	28.8	174.7	468.4	247.5	707.0	33.8	16.9	294.5
3592	Carburetors, pistons, rings, and valves	–	8	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	13.4
3599	Machinery, except electrical, n.e.c.	E1	1 323	189	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.1	281.1
36	**Electric and electronic equipment**	–	647	357	110.0	1 498.8	80.6	154.9	980.1	3 654.0	3 060.3	8 624.3	185.0	110.2	2 277.9
361	Electric distributing equipment	–	56	36	4.9	54.4	3.4	6.3	33.4	134.6	103.2	234.6	4.3	4.7	82.8
3612	Transformers	–	16	11	1.6	17.4	1.2	2.4	11.6	38.9	48.4	85.4	1.4	1.9	28.9
3613	Switchgear and switchboard apparatus	–	40	25	3.2	37.0	2.2	4.0	21.8	95.7	54.8	149.2	2.9	2.8	53.9
362	Electrical industrial apparatus	–	134	82	24.0	372.2	15.9	32.7	220.4	794.7	586.2	1 354.0	52.3	27.1	501.7
3621	Motors and generators	–	38	29	11.3	160.9	8.1	17.0	106.8	319.9	189.0	499.6	16.2	12.9	222.4
3622	Industrial controls	–	50	23	3.5	51.1	1.8	3.4	20.2	117.7	68.9	184.5	6.2	3.7	72.2
3623	Welding apparatus, electric	–	17	12	5.2	103.3	3.4	8.9	63.4	211.4	249.6	451.5	(D)	4.5	118.8
3624	Carbon and graphite products	–	13	10	1.3	18.6	1.0	2.0	12.3	47.9	27.0	72.0	2.9	EE	(D)
3629	Electrical industrial apparatus, n.e.c.	–	16	8	2.7	38.1	1.7	3.4	17.6	97.8	51.6	148.4	(D)	FF	(D)
363	Household appliances	–	42	28	28.3	382.1	21.8	41.1	269.4	978.7	1 085.4	2 047.4	38.7	23.3	618.3
3631	Household cooking equipment	–	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3632	Household refrigerators and freezers	–	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3633	Household laundry equipment	–	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3634	Electric housewares and fans	–	17	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	61.6

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
36	**Electric and electronic equipment**—Con.													
363	Household appliances—Con.													
3635	Household vacuum cleaners	-	7	6	4.9	59.0	3.8	6.3	41.4	172.6	102.6	279.9	(D)	FF	(D)
3639	Household appliances, n.e.c.	-	6	3	0.3	3.1	0.2	0.3	1.8	9.6	14.0	23.0	0.3	BB	(D)
364	Electric lighting and wiring equipment	-	111	76	18.1	234.2	14.6	27.5	173.4	629.3	486.0	1 103.6	30.3	19.9	423.9
3641	Electric lamps	-	12	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3643	Current-carrying wiring devices	-	25	18	2.6	29.7	2.0	3.9	20.0	71.1	43.7	110.1	4.7	2.8	45.3
3644	Noncurrent-carrying wiring devices	-	17	14	2.2	25.9	1.5	2.7	15.8	49.8	41.9	93.8	2.3	2.2	27.5
3645	Residential lighting fixtures	-	22	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3646	Commercial lighting fixtures	-	15	9	1.2	13.3	0.8	1.5	7.7	36.8	39.8	76.6	(D)	1.2	39.0
3647	Vehicular lighting equipment	-	8	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3648	Lighting equipment, n.e.c.	-	14	9	1.1	14.5	0.8	1.6	9.4	25.7	23.4	50.5	0.8	1.4	26.9
365	Radio and TV receiving equipment	E1	25	5	0.7	4.8	0.5	0.7	3.2	9.7	9.6	22.5	0.7	1.5	22.5
3651	Radio and TV receiving sets	E1	12	2	0.5	3.4	0.4	0.5	2.2	6.7	7.0	16.9	(D)	EE	(D)
366	Communication equipment	-	77	41	11.5	159.7	7.7	14.5	98.4	374.9	285.2	635.1	9.4	12.9	237.0
3661	Telephone and telegraph apparatus	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3662	Radio and TV communication equipment	-	73	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
367	Electronic components and accessories	-	129	50	7.3	84.2	5.9	11.5	58.9	220.2	136.7	356.1	14.6	8.0	158.8
3671	Electron tubes, all types	-	4	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3674	Semiconductors and related devices	-	13	5	1.9	23.6	1.5	2.8	14.9	90.4	21.8	112.9	(D)	EE	(D)
3676	Electronic resistors	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3677	Electronic coils and transformers	E1	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	14.7
3678	Electronic connectors	-	5	5	0.3	3.1	0.2	0.4	1.5	7.6	3.4	10.6	(D)	BB	(D)
3679	Electronic components, n.e.c.	-	98	32	2.7	28.8	2.1	4.1	18.5	71.1	45.6	115.2	3.0	2.3	35.5
369	Miscellaneous electrical equipment and supplies	-	73	39	15.3	205.3	10.8	20.6	122.9	511.9	368.1	871.0	34.8	12.7	232.9
3691	Storage batteries	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.7
3692	Primary batteries, dry and wet	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3693	X-ray, electromedical, and electrotheraputic apparatus	-	7	6	3.7	54.9	1.7	3.4	20.0	142.0	80.0	221.2	10.2	EE	(D)
3694	Engine electrical equipment	-	18	12	8.0	111.1	6.1	11.6	73.1	273.6	179.9	448.4	17.2	7.4	130.8
3699	Electrical equipment and supplies, n.e.c.	-	41	15	1.9	19.5	1.7	3.1	15.1	44.5	40.5	84.9	2.5	2.0	29.7
37	**Transportation equipment**	-	**468**	**224**	**158.9**	**3 061.2**	**122.3**	**257.4**	**2 237.7**	**6 376.5**	**10 259.6**	**16 568.9**	**494.1**	**161.4**	**3 812.9**
371	Motor vehicles and equipment	-	274	146	121.4	2 412.8	100.2	214.3	1 923.0	5 186.1	9 347.7	14 457.2	(D)	117.8	2 898.7
3711	Motor vehicles and car bodies	-	22	9	33.1	659.6	28.1	59.6	540.6	1 519.5	5 180.5	6 690.4	74.4	33.0	940.6
3713	Truck and bus bodies	-	51	25	5.9	100.4	4.8	10.0	79.4	342.1	266.6	608.6	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories	-	188	107	81.8	1 646.0	66.9	144.0	1 298.7	3 309.7	3 881.9	7 124.3	355.6	80.0	1 882.7
3715	Truck trailers	-	11	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	10.7
3716	Motor homes produced on purchased chassis	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts	-	65	43	27.4	508.7	14.2	28.8	213.3	975.3	587.4	1 563.1	(D)	33.2	727.3
3721	Aircraft	-	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3724	Aircraft engines and engine parts	-	20	16	16.3	324.8	7.8	15.4	113.9	623.0	382.3	999.8	25.3	FF	(D)
3728	Aircraft equipment, n.e.c.	-	42	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.3	185.1
373	Ship and boat building and repairing	-	46	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	27.6
3731	Ship building and repairing	-	14	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3732	Boat building and repairing	E1	32	4	0.3	3.0	0.2	0.5	2.2	5.2	4.7	9.9	0.2	BB	(D)
3743	Railroad equipment	-	15	11	3.8	60.8	3.0	5.6	46.2	92.0	118.0	213.1	(D)	2.8	49.2
3751	Motorcycles, bicycles, and parts	-	11	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
376	Guided missiles, space vehicles, parts	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3764	Space propulsion units and parts	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
379	Miscellaneous transportation equipment	-	55	12	1.7	18.0	1.4	2.4	13.0	24.9	85.2	114.9	(D)	2.6	35.3
3792	Travel trailers and campers	-	21	8	1.3	14.2	1.1	1.9	10.9	17.9	71.0	93.9	(D)	EE	(D)
3799	Transportation equipment, n.e.c.	E7	32	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	13.7

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
38	**Instruments and related products**	-	331	129	23.1	275.0	15.5	29.3	148.1	518.5	304.3	818.0	17.7	19.4	307.2
3811	Engineering and scientific instruments	E1	32	13	1.2	14.7	0.7	1.4	7.7	29.4	19.0	47.9	2.7	0.8	8.5
382	Measuring and controlling devices	-	124	63	18.0	194.5	10.8	20.2	102.5	353.3	182.9	531.9	9.4	14.1	223.5
3822	Environmental controls	-	24	16	6.9	68.9	5.7	10.5	51.2	121.2	59.9	178.8	3.0	5.3	71.9
3823	Process control instruments	-	19	9	3.2	45.5	1.5	3.0	18.4	85.8	40.8	127.4	1.5	3.8	49.2
3825	Instruments to measure electricity	-	39	20	3.0	33.7	2.0	3.8	18.4	68.0	38.6	104.3	2.5	2.8	48.3
3829	Measuring and controlling devices, n.e.c.	-	39	16	2.9	45.7	1.4	2.9	18.1	77.0	42.8	119.4	2.3	EE	(D)
3832	Optical instruments and lenses	-	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
384	Medical instruments and supplies	E1	110	39	4.2	44.8	3.1	5.8	27.5	91.1	78.9	187.0	3.6	3.4	51.1
3841	Surgical and medical instruments	E2	20	7	0.9	9.2	0.7	1.2	6.2	17.9	20.7	39.0	1.0	CC	(D)
3842	Surgical appliances and supplies	-	74	28	2.8	28.5	2.0	3.8	17.7	61.2	47.1	106.6	1.8	1.8	22.4
3843	Dental equipment and supplies	-	16	6	0.6	7.0	0.4	0.7	3.5	12.0	9.1	21.4	0.8	CC	(D)
3851	Ophthalmic goods	E2	33	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	4.2
3861	Photographic equipment and supplies	-	22	8	0.7	8.7	0.5	1.0	5.5	21.2	15.0	35.8	0.7	CC	(D)
39	**Miscellaneous manufacturing industries**	-	590	146	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	18.6	288.2
391	Jewelry, silverware, and plated ware	E2	59	8	0.8	7.9	0.6	1.1	4.8	14.7	18.9	33.0	(D)	0.5	9.0
3911	Jewelry, precious metal	E2	36	6	0.5	5.3	0.4	0.6	2.7	8.6	13.2	21.6	(D)	0.3	5.5
3914	Silverware and plated ware	E1	12	2	0.2	2.3	0.2	0.4	1.9	5.4	4.7	9.7	(D)	(NA)	(NA)
3931	Musical instruments	-	20	8	1.5	16.2	1.1	2.0	10.3	24.7	16.9	41.7	(D)	EE	(D)
394	Toys and sporting goods	-	98	24	8.1	57.6	4.5	9.2	38.8	226.0	173.4	389.9	(D)	6.4	103.5
3944	Games, toys, and children's vehicles	-	33	8	3.4	30.8	2.4	5.1	19.4	148.1	93.7	235.9	9.0	4.0	66.5
3949	Sporting and athletic goods, n.e.c.	-	60	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
395	Pens, pencils, office and art supplies	-	47	14	1.2	12.4	0.7	1.4	8.5	28.1	23.0	50.0	(D)	1.7	28.8
3952	Lead pencils and art goods	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3953	Marking devices	-	37	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	7.8
3955	Carbon paper and inked ribbons	-	4	3	0.4	4.5	0.2	0.5	2.4	8.0	11.0	18.7	0.5	CC	(D)
399	Miscellaneous manufactures	-	357	91	7.7	84.2	5.8	11.0	52.3	163.6	131.7	293.7	(D)	8.6	125.2
3991	Brooms and brushes	-	27	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3993	Signs and advertising displays	E1	173	44	3.2	35.4	2.4	4.8	22.3	66.0	44.4	109.9	2.3	FF	(D)
3995	Burial caskets	-	22	6	0.5	6.6	0.4	0.8	3.7	12.2	8.9	20.6	0.3	1.1	15.3
3999	Manufacturing industries, n.e.c.	E1	133	25	2.1	19.0	1.7	3.0	12.2	38.3	34.0	71.6	1.8	2.3	29.1
–	**Administrative and auxiliary**	-	531	314	81.7	1 802.3	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for inoividual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Cincinnati-Hamilton, Ohio-Ky.-Ind., SCSA	-	**2 373**	**958**	**189.6**	**2 944.3**	**117.7**	**238.4**	**1 618.9**	**6 608.2**	**7 196.2**	**13 769.5**	**357.1**	**185.5**	**4 145.4**
20	Food and kindred products	-	157	79	16.2	249.8	10.3	21.9	155.3	795.5	1 183.0	1 976.7	(D)	(NA)	(NA)
2011	Meat packing plants	-	17	7	1.4	24.5	1.0	2.0	16.1	49.9	179.2	229.8	(D)	(NA)	(NA)
2026	Fluid milk	-	15	8	1.0	15.7	0.5	1.1	7.4	28.9	123.9	152.9	3.5	(NA)	(NA)
203	Preserved fruits and vegetables	-	12	6	0.6	6.4	0.5	0.9	5.1	32.5	51.8	84.3	1.2	(NA)	(NA)
2033	Canned fruits and vegetables	-	7	5	0.5	5.8	0.5	0.9	4.7	30.6	48.4	79.0	(D)	(NA)	(NA)
2085	Distilled liquor, except brandy	-	5	5	2.6	44.6	2.1	4.7	35.0	155.5	134.7	290.4	3.9	(NA)	(NA)
22	Textile mill products	-	15	6	0.8	8.0	0.5	1.1	5.3	21.8	16.4	37.7	1.0	(NA)	(NA)
229	Miscellaneous textile goods	-	5	3	0.5	5.1	0.3	0.7	3.1	14.9	9.1	23.5	(D)	(NA)	(NA)
24	Lumber and wood products	-	75	23	1.6	15.7	1.3	2.6	10.8	35.0	39.9	74.2	1.4	(NA)	(NA)
25	Furniture and fixtures	-	61	24	3.7	36.5	3.0	5.3	24.9	72.4	88.3	159.6	(D)	4.6	66.9
26	Paper and allied products	-	110	74	12.0	168.0	9.5	19.6	126.2	318.4	473.9	795.2	18.3	12.3	222.9
265	Paperboard containers and boxes	-	53	36	4.8	59.8	3.8	7.5	44.2	118.2	167.7	283.0	(D)	(NA)	(NA)
27	Printing and publishing	-	377	103	13.2	165.0	8.0	14.9	97.1	369.3	215.3	581.7	(D)	14.3	269.7
2721	Periodicals	-	18	4	0.9	6.0	0.1	0.3	2.1	32.1	6.0	37.8	(D)	(NA)	(NA)
2741	Miscellaneous publishing	-	13	3	0.4	3.8	0.1	0.2	1.0	8.2	13.1	21.2	0.1	(NA)	(NA)
2752	Commercial printing, lithographic	-	115	27	3.5	45.8	2.7	4.9	33.1	88.5	54.3	142.8	(D)	(NA)	(NA)
278	Blankbooks and bookbinding	-	16	12	0.7	8.8	0.5	1.0	4.9	12.6	4.1	16.6	0.3	(NA)	(NA)
2782	Blankbooks and looseleaf binders	-	6	6	0.4	4.0	0.3	0.5	2.8	8.0	2.7	10.7	0.2	(NA)	(NA)
2789	Bookbinding and related work	-	10	8	0.3	2.8	0.3	0.4	2.1	4.6	1.4	5.9	0.1	(NA)	(NA)
279	Printing trade services	-	32	12	0.6	10.4	0.4	0.8	7.4	16.2	4.1	20.0	0.8	(NA)	(NA)
2795	Lithographic platemaking services	-	12	8	0.3	7.0	0.2	0.5	5.0	10.7	3.1	13.6	0.4	(NA)	(NA)
28	Chemicals and allied products	-	120	53	12.9	207.4	7.7	15.2	113.2	1 274.7	919.6	2 185.6	53.8	11.9	798.9
281	Industrial inorganic chemicals	-	17	7	1.1	17.9	0.7	1.4	10.4	65.1	46.2	112.0	(D)	(NA)	(NA)
2851	Paints and allied products	-	13	6	0.6	8.7	0.3	0.6	3.4	32.8	33.9	65.7	0.6	(NA)	(NA)
286	Industrial organic chemicals	-	10	6	2.1	32.8	1.5	2.8	21.0	92.5	120.2	205.1	11.0	(NA)	(NA)
2893	Printing ink	-	12	7	0.6	7.6	0.3	0.6	4.4	18.2	25.5	43.4	(D)	(NA)	(NA)
2952	Asphalt felts and coatings	-	5	3	1.2	15.7	1.0	2.1	12.8	41.9	44.3	85.1	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	84	37	4.9	62.0	3.9	7.7	43.4	130.8	144.7	274.5	27.5	(NA)	(NA)
31	Leather and leather products	-	11	4	1.1	8.8	0.9	1.7	6.5	17.9	9.7	27.6	0.1	(NA)	(NA)
34	Fabricated metal products	-	289	137	20.1	298.8	15.5	31.2	209.8	608.0	659.3	1 261.3	38.2	19.3	363.2
341	Metal cans and shipping containers	-	5	5	1.4	21.6	1.1	2.4	16.2	51.6	76.8	127.6	2.9	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers	-	7	5	0.3	4.0	0.2	0.4	2.6	10.8	10.0	20.7	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	76	31	6.1	78.5	4.5	8.5	50.5	168.4	140.1	309.4	(D)	(NA)	(NA)
354	Metalworking machinery	-	108	36	10.5	163.6	5.7	11.6	83.4	274.2	147.9	428.8	12.9	(NA)	(NA)
356	General industrial machinery	-	52	23	4.8	58.1	3.4	5.8	33.5	128.9	117.3	246.7	(D)	(NA)	(NA)
3564	Blowers and fans	-	12	4	0.3	3.4	0.2	0.4	2.1	6.7	6.3	12.9	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	148	22	1.9	22.8	1.5	2.7	15.3	43.8	22.2	65.4	2.6	(NA)	(NA)
362	Electrical industrial apparatus	-	10	5	2.2	33.9	1.2	2.7	15.7	61.5	37.1	98.2	(D)	(NA)	(NA)
364	Electric lighting and wiring equipment	-	17	13	1.8	19.4	1.2	2.3	10.9	40.6	38.5	77.8	1.2	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Cincinnati-Hamilton, Ohio-Ky.-Ind., SCSA—Con.													
364	Electric lighting and wiring equipment—Con.													
3643	Current-carrying wiring devices	-	9	8	1.0	10.9	0.7	1.4	8.5	21.0	17.2	38.3	0.8	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	-	8	3	0.8	7.1	0.4	0.8	4.4	12.1	8.9	22.3	(D)	(NA)	(NA)
38	Instruments and related products	E1	49	20	1.8	21.2	1.2	2.3	11.5	40.5	38.6	78.1	1.8	(NA)	(NA)
382	Measuring and controlling devices	-	20	11	0.6	7.5	0.4	0.7	3.4	13.4	8.0	21.2	0.5	(NA)	(NA)
3829	Measuring and controlling devices, n.e.c.	-	10	7	0.4	4.0	0.2	0.4	1.7	7.4	4.1	11.4	0.2	(NA)	(NA)
384	Medical instruments and supplies	E1	16	4	0.8	8.7	0.6	1.0	5.0	21.7	22.1	43.3	1.1	(NA)	(NA)
3944	Games, toys, and children's vehicles	-	5	1	1.9	17.3	1.3	3.1	11.8	93.8	81.5	151.7	(D)	(NA)	(NA)
	Cleveland-Akron-Lorain SCSA	-	**5 877**	**2 184**	**388.7**	**8 278.8**	**256.4**	**520.3**	**3 744.5**	**11 966.8**	**14 173.4**	**25 950.7**	**793.7**	**399.1**	**7 925.5**
22	Textile mill products	-	32	13	2.8	29.3	2.0	3.8	14.7	62.4	39.0	103.5	(D)	(NA)	(NA)
24	Lumber and wood products	E1	112	18	1.3	15.5	1.0	2.0	10.9	30.2	39.4	68.9	1.1	(NA)	(NA)
2514	Metal household furniture	-	6	3	0.5	4.9	0.4	0.8	3.8	9.3	15.5	24.9	0.1	(NA)	(NA)
2642	Envelopes	-	4	3	0.5	8.4	0.4	0.8	4.1	9.5	9.7	19.1	(D)	(NA)	(NA)
2741	Miscellaneous publishing	E1	24	7	0.4	4.4	0.2	0.3	1.3	8.0	2.5	10.5	0.2	(NA)	(NA)
2761	Manifold business forms	E1	12	3	0.3	3.9	0.2	0.4	2.7	7.3	7.2	14.4	0.3	(NA)	(NA)
279	Printing trade services	-	71	14	0.8	12.6	0.6	1.1	8.8	20.8	6.8	27.5	(D)	(NA)	(NA)
28	Chemicals and allied products	-	263	101	14.1	222.2	8.6	17.8	121.0	720.7	955.5	1 671.3	(D)	19.0	508.6
284	Soaps, cleaners, and toilet goods	-	47	12	1.0	12.9	0.6	1.2	6.3	75.0	70.3	142.7	(D)	(NA)	(NA)
3293	Gaskets, packing, and sealing devices	-	15	8	0.5	5.1	0.4	0.7	3.1	9.6	8.8	18.1	(D)	(NA)	(NA)
332	Iron and steel foundries	-	34	23	9.0	178.2	7.6	16.7	145.8	373.8	235.1	608.7	28.5	(NA)	(NA)
34	Fabricated metal products	-	980	437	66.1	1 018.1	50.9	104.3	730.9	2 124.0	2 116.6	4 211.7	114.3	61.8	1 266.7
3411	Metal cans	-	3	2	0.5	7.2	0.4	1.0	5.6	24.1	28.3	52.7	(D)	(NA)	(NA)
344	Fabricated structural metal products	-	183	76	11.4	145.0	7.9	15.0	95.3	359.2	461.3	834.6	13.0	(NA)	(NA)
3449	Miscellaneous metal work	-	8	2	0.4	6.7	0.3	0.5	2.9	22.0	17.9	39.5	(D)	(NA)	(NA)
345	Screw machine products, bolts, etc.	-	143	80	8.4	119.4	6.5	13.2	81.8	255.9	203.8	463.8	14.8	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	175	73	8.5	111.2	6.3	12.8	71.0	258.0	247.7	484.4	(D)	(NA)	(NA)
3494	Valves and pipe fittings	-	38	24	3.7	49.5	2.5	5.3	31.1	134.1	122.2	237.9	(D)	(NA)	(NA)
3498	Fabricated pipe and fittings	-	13	5	0.5	6.0	0.4	0.8	4.1	20.8	17.0	35.5	0.7	(NA)	(NA)
35	Machinery, except electrical	-	1 533	439	58.9	906.6	41.6	84.8	578.5	1 783.9	1 295.8	3 058.5	94.3	57.2	1 138.1
352	Farm and garden machinery	-	11	6	0.5	5.2	0.5	1.0	3.1	12.3	12.9	25.0	(D)	(NA)	(NA)
354	Metalworking machinery	-	494	153	17.5	268.3	12.9	26.8	177.2	518.4	229.4	748.8	(D)	(NA)	(NA)
3542	Machine tools, metal forming types	-	18	10	1.2	18.8	0.8	1.8	10.7	37.3	25.9	65.0	0.9	(NA)	(NA)
3546	Power driven hand tools	-	6	5	0.8	9.4	0.4	0.8	5.3	24.9	6.8	31.3	1.6	(NA)	(NA)
355	Special industry machinery	-	107	63	7.9	118.7	5.1	10.3	70.8	222.6	170.8	383.1	(D)	(NA)	(NA)
356	General industrial machinery	-	164	50	5.8	82.5	3.7	7.4	49.8	187.7	112.5	300.8	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	253	134	24.5	350.8	18.7	32.8	204.6	859.0	712.6	1 551.2	51.6	(NA)	(NA)
3648	Lighting equipment, n.e.c.	-	6	4	0.4	5.6	0.4	0.7	3.9	9.9	9.3	19.6	0.1	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	199	53	4.7	49.8	3.6	6.7	31.3	95.6	76.0	172.0	(D)	5.2	78.9
3931	Musical instruments	-	9	3	0.8	6.4	0.5	1.0	4.5	12.1	8.6	20.7	(D)	(NA)	(NA)
	Akron SMSA	-	**1 061**	**406**	**83.5**	**1 305.4**	**50.1**	**99.4**	**699.4**	**2 014.2**	**2 205.8**	**4 158.1**	**158.8**	**94.4**	**1 888.2**
20	Food and kindred products	E1	50	16	2.4	32.3	1.3	2.7	18.3	95.4	130.4	221.4	9.6	6.3	79.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Akron SMSA—Con.														
20	Food and kindred products—Con.														
205	Bakery products	–	15	5	0.6	8.9	0.4	0.8	5.2	20.5	19.2	39.7	5.7	(NA)	(NA)
2051	Bread, cake, and related products	–	15	5	0.6	8.9	0.4	0.8	5.2	20.5	19.2	39.7	5.7	(NA)	(NA)
206	Beverages	E2	6	5	0.7	9.5	0.2	0.4	2.4	28.8	39.4	67.1	(D)	0.6	13.0
22	Textile mill products	–	8	4	0.4	3.8	0.3	0.5	2.5	8.8	10.8	19.6	(D)	(NA)	(NA)
23	Apparel and other textile products	E1	21	8	0.4	3.8	0.4	0.7	2.7	7.0	7.9	14.6	0.3	(NA)	(NA)
24	Lumber and wood products	–	17	3	0.3	3.4	0.3	0.5	2.9	6.2	10.1	15.8	0.2	0.4	9.9
26	Paper and allied products	–	17	10	1.4	20.4	0.9	1.9	10.4	43.5	54.5	98.1	(D)	1.2	28.5
264	Miscellaneous converted paper products	–	10	5	1.1	16.0	0.7	1.5	7.5	34.2	41.2	75.4	(D)	(NA)	(NA)
27	Printing and publishing	E1	117	27	2.6	35.1	1.7	3.2	21.8	67.7	29.4	97.0	3.1	2.2	42.5
275	Commercial printing	E2	70	12	0.8	9.8	0.6	1.2	6.8	18.2	11.1	29.2	1.4	0.6	9.5
2751	Commercial printing, letterpress	E3	40	3	0.3	3.2	0.3	0.5	2.2	6.8	5.3	12.1	0.4	0.3	3.1
28	Chemicals and allied products	–	41	19	3.3	54.8	2.0	4.2	30.1	149.9	188.4	337.3	19.6	3.7	105.9
282	Plastics materials and synthetics	–	3	3	0.7	12.3	0.4	0.9	6.7	22.8	88.7	112.0	(D)	0.7	26.3
284	Soaps, cleaners, and toilet goods	–	7	4	0.4	4.1	0.3	0.5	2.6	21.7	14.2	35.3	0.4	(NA)	(NA)
2851	Paints and allied products	–	6	5	0.3	4.0	0.2	0.3	1.7	12.2	13.3	25.3	0.4	(NA)	(NA)
289	Miscellaneous chemical products	–	14	3	0.3	4.7	0.2	0.5	3.3	11.0	8.2	19.3	(D)	0.3	7.6
30	Rubber and miscellaneous plastics products	–	126	77	27.7	460.5	17.6	35.2	268.2	638.3	828.6	1 419.9	58.2	32.6	746.9
32	Stone, clay, and glass products	–	49	20	1.9	26.9	1.4	2.8	17.9	64.7	49.8	116.1	4.9	2.9	50.5
33	Primary metal industries	–	25	12	1.5	18.8	1.2	2.3	14.1	39.4	36.7	76.0	2.1	1.4	22.5
332	Iron and steel foundries	E1	11	8	1.0	11.7	0.8	1.5	8.6	20.9	10.5	31.4	1.4	1.0	13.5
336	Nonferrous foundries	–	7	4	0.3	3.0	0.2	0.4	2.3	6.2	5.0	11.1	0.2	(NA)	(NA)
34	Fabricated metal products	–	139	56	13.5	198.8	10.6	20.4	149.1	426.1	453.6	891.5	20.0	13.6	262.0
342	Cutlery, hand tools, and hardware	–	13	8	0.8	9.6	0.6	1.2	6.5	21.9	17.7	39.2	1.0	0.6	11.2
3423	Hand and edge tools, n.e.c.	–	10	5	0.6	8.1	0.5	0.9	5.3	18.5	13.0	31.4	(D)	(NA)	(NA)
344	Fabricated structural metal products	–	41	14	5.3	68.4	3.7	6.6	46.7	187.8	252.0	455.1	6.0	6.0	124.2
345	Screw machine products, bolts, etc.	–	9	3	0.7	9.7	0.6	1.1	7.7	26.5	13.3	38.7	0.4	0.6	15.9
346	Metal forgings and stampings	–	25	16	5.5	95.0	4.9	9.6	78.0	159.2	150.1	307.1	9.4	5.4	93.2
3469	Metal stampings, n.e.c.	–	12	7	0.4	5.1	0.3	0.6	3.2	9.3	7.3	16.5	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	18	7	0.8	7.9	0.5	0.9	5.0	18.6	12.7	31.5	2.4	0.6	12.0
3494	Valves and pipe fittings	–	4	4	0.4	5.7	0.3	0.6	3.7	14.6	7.5	22.4	(D)	0.5	10.8
35	Machinery, except electrical	–	316	96	11.5	182.7	8.1	16.8	115.9	275.1	257.6	522.7	28.6	10.8	183.7
353	Construction and related machinery	–	13	7	3.1	63.6	1.8	3.9	36.0	64.3	128.8	187.2	(D)	(NA)	(NA)
354	Metalworking machinery	–	97	37	2.9	44.5	2.4	5.2	33.1	75.7	26.5	102.2	(D)	2.2	39.7
355	Special industry machinery	–	33	24	2.9	41.7	1.9	3.7	23.9	76.0	55.8	128.9	(D)	3.5	58.8
3559	Special industry machinery, n.e.c.	–	28	20	2.7	38.8	1.7	3.5	22.3	68.8	52.3	118.5	2.8	3.1	49.7
356	General industrial machinery	–	34	7	0.8	12.3	0.6	1.3	8.2	22.8	23.8	46.0	(D)	0.6	14.1
36	Electric and electronic equipment	–	34	15	1.8	20.2	1.2	2.3	12.3	46.7	30.1	76.6	1.9	1.8	34.1
362	Electrical industrial apparatus	E2	7	4	0.5	7.3	0.3	0.6	3.4	11.0	5.2	15.6	0.7	1.1	24.9
37	Transportation equipment	–	18	7	3.8	58.6	1.9	3.6	26.8	101.5	85.2	175.7	3.5	5.3	85.4

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Akron SMSA—Con.													
38	Instruments and related products	-	13	7	0.4	4.5	0.2	0.4	2.0	13.3	6.7	19.7	0.7	0.5	8.8
39	Miscellaneous manufacturing industries	E1	25	5	0.4	4.1	0.3	0.5	2.5	8.1	3.7	11.6	(D)	1.0	15.2
	Canton SMSA	-	603	235	57.2	858.4	41.8	80.8	801.5	1 897.5	2 405.8	4 262.4	121.2	57.8	1 151.8
20	Food and kindred products	-	50	20	5.0	56.6	2.9	5.7	35.2	150.1	343.0	492.6	9.1	4.9	85.0
202	Dairy products	-	11	5	0.7	8.0	0.3	0.5	2.8	27.2	59.9	86.8	(D)	0.7	12.0
23	Apparel and other textile products	-	15	4	0.3	2.1	0.3	0.4	1.8	3.6	2.5	6.1	(D)	(NA)	(NA)
24	Lumber and wood products	E3	18	4	0.3	3.1	0.3	0.6	2.3	6.0	6.3	11.9	0.3	0.3	3.5
26	Paper and allied products	-	21	13	1.1	13.4	0.9	2.0	10.1	29.8	45.3	74.9	2.0	1.2	18.5
265	Paperboard containers and boxes	-	11	6	0.6	7.8	0.5	1.1	5.6	16.2	24.9	41.0	1.2	0.6	10.2
2653	Corrugated and solid fiber boxes	-	6	3	0.4	5.2	0.3	0.7	3.9	11.8	19.5	31.3	(D)	0.4	7.3
27	Printing and publishing	-	60	16	1.9	22.7	1.3	2.5	14.3	47.0	26.7	73.5	1.5	2.0	31.3
2711	Newspapers	-	9	3	0.4	4.7	0.2	0.3	2.0	16.5	4.3	20.7	0.4	0.5	10.0
275	Commercial printing	-	35	8	1.1	13.9	0.9	1.7	10.3	21.5	15.4	36.8	0.8	1.2	18.3
2752	Commercial printing, lithographic	-	15	5	0.8	9.9	0.6	1.2	7.6	15.4	10.0	25.4	0.4	1.1	16.6
28	Chemicals and allied products	-	22	10	0.6	8.2	0.3	0.6	3.5	49.5	40.2	89.4	0.9	0.6	29.0
2851	Paints and allied products	-	5	5	0.3	3.9	0.1	0.2	1.2	10.2	14.4	24.8	0.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	33	17	3.5	42.9	2.8	5.6	30.2	88.7	85.1	171.5	5.7	3.9	59.3
3069	Fabricated rubber products, n.e.c.	-	10	8	2.5	33.1	2.0	4.0	24.7	69.4	64.5	132.2	(D)	2.7	42.1
33	Primary metal industries	-	28	18	14.3	267.5	11.6	23.1	208.4	674.1	714.0	1 356.5	(D)	14.0	347.7
331	Blast furnace and basic steel products	-	10	7	11.2	221.7	9.1	18.1	174.2	588.9	665.4	1 223.8	(D)	10.7	288.4
332	Iron and steel foundries	-	7	5	2.0	31.3	1.7	3.4	24.7	58.5	28.5	84.5	(D)	(NA)	(NA)
34	Fabricated metal products	-	104	51	10.2	160.6	7.8	15.4	116.8	346.0	385.9	734.9	24.5	10.8	244.6
342	Cutlery, hand tools, and hardware	-	6	5	0.5	5.5	0.4	0.7	3.9	12.2	11.0	23.0	(D)	0.5	7.4
344	Fabricated structural metal products	-	29	15	2.0	25.7	1.6	3.0	19.7	62.9	54.3	118.3	2.1	1.7	35.3
345	Screw machine products, bolts, etc.	-	6	3	0.5	6.0	0.4	0.7	4.7	13.3	10.8	23.9	0.4	0.5	7.8
346	Metal forgings and stampings	-	19	14	3.9	76.2	3.3	7.0	63.7	149.2	220.4	369.5	19.4	4.1	93.3
3462	Iron and steel forgings	-	8	8	2.9	62.3	2.5	5.3	51.9	115.4	187.0	302.2	18.2	3.0	72.3
347	Metal services, n.e.c.	-	24	3	0.4	3.8	0.3	0.7	2.9	7.2	3.9	10.9	0.3	0.3	4.2
35	Machinery, except electrical	-	104	25	8.2	135.8	6.5	12.2	99.5	232.2	249.6	471.4	18.6	7.8	114.6
354	Metalworking machinery	-	28	7	0.5	6.5	0.4	0.8	5.0	9.8	4.2	13.6	0.6	0.5	8.6
359	Miscellaneous machinery, except electrical	E2	43	4	0.3	4.2	0.3	0.6	2.7	7.1	2.6	9.7	0.5	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E2	43	4	0.3	4.2	0.3	0.6	2.7	7.1	2.6	9.7	0.5	(NA)	(NA)
37	Transportation equipment	E1	14	1	0.5	8.4	0.4	0.8	6.0	15.8	12.7	29.4	0.2	(NA)	(NA)
38	Instruments and related products	-	10	5	0.6	5.5	0.4	0.8	3.5	9.1	5.6	14.6	0.3	0.6	10.1
382	Measuring and controlling devices	-	6	4	0.5	5.1	0.4	0.7	3.2	8.2	5.2	13.4	0.3	(NA)	(NA)
--	Administrative and auxiliary	-	15	9	2.7	31.2	-	-	-	-	-	-	-	(NA)	(NA)
	Cincinnati, Ohio-Ky.-Ind., SMSA	-	2 135	856	180.2	2 435.8	97.2	197.9	1 289.5	5 845.9	6 043.1	11 847.9	(D)	157.6	3 561.2

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Cincinnati, Ohio-Ky.-Ind., SMSA—Con.													
20	Food and kindred products	-	150	77	15.9	245.9	10.1	21.6	152.8	750.9	1 182.1	1 911.3	26.6	18.5	579.2
201	Meat products	-	31	14	2.3	39.1	1.7	3.5	27.1	71.0	264.6	336.3	3.4	2.7	48.4
2011	Meat packing plants	-	17	7	1.4	24.5	1.0	2.0	16.1	49.9	179.2	229.8	(D)	2.0	36.6
202	Dairy products	-	20	10	1.1	16.8	0.5	1.2	8.1	31.1	131.4	182.6	3.7	1.4	28.2
2026	Fluid milk	-	15	8	1.0	15.7	0.5	1.1	7.4	28.9	123.9	152.9	3.5	1.3	23.4
203	Preserved fruits and vegetables	-	12	6	0.6	6.4	0.5	0.9	5.1	32.5	51.8	84.3	1.2	0.7	17.4
2033	Canned fruits and vegetables	-	7	5	0.5	5.6	0.5	0.9	4.7	30.6	48.4	79.0	(D)	0.4	11.0
208	Beverages	-	21	15	4.8	77.7	3.1	8.7	48.7	240.0	214.4	453.9	8.7	6.1	257.2
2085	Distilled liquor, except brandy	-	5	5	2.6	44.6	2.1	4.7	35.0	155.5	134.7	290.4	3.9	3.6	193.1
2086	Bottled and canned soft drinks	-	6	4	1.3	17.8	0.4	0.8	4.8	43.2	38.5	81.1	(D)	1.2	22.2
209	Miscellaneous foods and kindred products	-	20	7	1.5	17.8	0.6	1.3	6.9	56.8	101.8	157.8	1.4	1.5	30.3
22	Textile mill products	-	15	6	0.8	8.0	0.5	1.1	5.3	21.8	16.4	37.7	1.0	(NA)	(NA)
229	Miscellaneous textile goods	-	5	3	0.5	5.1	0.3	0.7	3.1	14.9	9.1	23.5	(D)	(NA)	(NA)
23	Apparel and other textile products	-	53	27	3.9	32.8	2.9	5.1	18.8	72.9	77.6	149.5	2.4	4.2	49.4
239	Miscellaneous fabricated textile products	-	28	11	1.5	11.9	1.2	2.2	7.9	29.9	42.3	71.7	1.8	1.2	16.4
2392	House furnishings, n.e.c.	-	8	4	0.7	5.1	0.6	1.1	3.4	11.9	14.3	25.9	(D)	(NA)	(NA)
24	Lumber and wood products	-	62	19	1.4	13.4	1.1	2.3	9.2	26.2	28.3	54.2	1.2	1.1	16.1
243	Millwork, plywood, and structural members	E1	17	9	0.6	5.0	0.5	0.9	3.7	9.7	9.6	18.8	0.6	0.5	8.1
2434	Wood kitchen cabinets	E3	8	4	0.3	1.9	0.2	0.4	1.5	3.5	2.5	5.8	(Z)	(NA)	(NA)
249	Miscellaneous wood products	-	24	7	0.6	5.6	0.5	0.9	3.7	11.7	10.8	22.4	0.4	0.4	5.8
25	Furniture and fixtures	-	54	18	2.6	25.9	2.1	4.0	18.0	53.4	64.2	117.3	1.3	4.0	55.9
251	Household furniture	-	29	12	1.9	18.9	1.6	3.0	13.5	41.8	51.9	93.7	0.9	2.7	35.3
2515	Mattresses and bedsprings	-	11	7	1.0	10.3	0.8	1.5	7.1	25.1	38.9	64.3	0.5	1.1	15.8
254	Partitions and fixtures	-	18	3	0.4	4.7	0.3	0.6	2.8	7.0	9.5	16.3	(D)	(NA)	(NA)
26	Paper and allied products	-	92	56	6.6	84.5	5.1	10.5	61.2	175.5	240.1	413.6	11.4	6.5	117.0
2631	Paperboard mills	-	4	4	0.6	11.4	0.5	1.2	9.5	25.9	26.5	52.2	1.7	0.7	14.3
264	Miscellaneous converted paper products	E1	36	19	1.9	22.4	1.4	2.8	14.0	49.6	70.8	120.5	2.4	2.1	39.3
265	Paperboard containers and boxes	-	46	29	3.7	45.7	3.0	5.9	33.8	91.8	130.0	219.8	6.9	3.4	58.1
2651	Folding paperboard boxes	-	15	10	2.0	23.6	1.7	3.4	19.3	50.4	66.0	114.0	4.8	1.7	31.7
2653	Corrugated and solid fiber boxes	-	18	10	1.3	18.0	0.9	1.8	11.9	33.8	51.8	85.5	1.6	1.4	22.4
27	Printing and publishing	-	352	98	12.6	157.8	7.6	14.2	92.8	353.1	210.7	581.0	16.1	13.6	237.0
2711	Newspapers	-	38	9	2.1	28.5	1.0	1.8	14.1	60.9	27.8	88.8	(D)	(NA)	(NA)
2721	Periodicals	-	18	4	0.9	8.0	0.1	0.3	2.1	32.1	6.0	37.8	(D)	0.9	21.8
273	Books	E1	16	7	1.0	13.9	0.5	1.1	6.9	53.1	25.8	77.6	1.8	1.1	28.5
2741	Miscellaneous publishing	-	13	3	0.4	3.8	0.1	0.2	1.0	8.2	13.1	21.2	0.1	0.4	4.1
2751	Commercial printing, letterpress	-	100	17	1.3	15.4	1.0	1.9	10.2	26.6	40.4	67.1	3.4	(NA)	(NA)
2752	Commercial printing, lithographic	-	105	26	3.4	44.5	2.6	4.7	32.2	86.2	53.2	139.4	4.2	3.7	65.5
278	Blankbooks and bookbinding	-	16	12	0.7	6.8	0.5	1.0	4.9	12.6	4.1	16.6	0.3	0.5	6.7
2782	Blankbooks and looseleaf binders	-	6	6	0.4	4.0	0.3	0.5	2.8	8.0	2.7	10.7	0.2	(NA)	(NA)
2789	Bookbinding and related work	-	10	6	0.3	2.8	0.3	0.4	2.1	4.8	1.4	5.9	0.1	0.4	3.4
279	Printing trade services	-	32	12	0.6	10.4	0.4	0.8	7.4	16.2	4.1	20.0	0.8	0.8	13.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Cincinnati, Ohio-Ky.-Ind., SMSA—Con.													
27	Printing and publishing—Con.													
279	Printing trade services—Con.													
2795	Lithographic platemaking services	-	12	8	0.3	7.0	0.2	0.5	5.0	10.7	3.1	13.6	0.4	(NA)	(NA)
28	Chemicals and allied products	-	112	49	12.7	205.7	7.5	15.0	112.0	1 267.7	906.1	2 165.3	53.2	12.2	803.8
281	Industrial inorganic chemicals	-	13	5	1.1	16.8	0.7	1.3	9.5	59.9	35.6	96.3	1.9	1.1	35.1
2819	Industrial inorganic chemicals, n.e.c.	-	7	5	1.0	16.5	0.6	1.2	9.3	58.3	34.4	93.4	1.8	1.0	33.0
2851	Paints and allied products	-	13	6	0.6	8.7	0.3	0.6	3.4	32.8	33.9	65.7	0.8	0.7	14.1
286	Industrial organic chemicals	-	10	6	2.1	32.6	1.5	2.8	21.0	92.5	120.2	205.1	11.0	1.8	39.8
289	Miscellaneous chemical products	-	29	13	1.8	23.9	1.1	1.8	12.9	75.9	99.5	175.0	4.6	1.7	50.2
2893	Printing ink	-	12	7	0.6	7.6	0.3	0.6	4.4	18.2	25.5	43.4	(D)	0.7	15.0
29	Petroleum and coal products	-	23	7	1.6	23.6	1.3	2.7	18.5	83.5	301.3	360.7	3.1	1.3	45.9
295	Paving and roofing materials	-	14	3	1.3	16.6	1.1	2.2	13.5	43.9	51.1	94.1	1.6	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	77	33	4.7	59.8	3.7	7.4	41.8	125.8	139.8	264.6	27.5	4.5	89.8
31	Leather and leather products	-	11	4	1.1	8.8	0.9	1.7	6.5	17.9	9.7	27.6	0.1	1.3	13.9
32	Stone, clay, and glass products	-	100	29	2.3	28.1	1.7	3.3	18.4	64.2	66.9	130.2	5.1	2.3	48.4
327	Concrete, gypsum, and plaster products	E1	57	16	0.9	10.2	0.5	1.1	5.6	23.2	25.7	49.0	2.4	0.9	18.5
3272	Concrete products, n.e.c.	-	17	6	0.3	3.5	0.2	0.4	2.1	6.0	4.9	11.1	0.3	0.3	5.8
3273	Ready-mixed concrete	E2	31	9	0.5	5.8	0.3	0.5	3.0	15.3	18.2	33.5	2.0	0.5	11.1
329	Miscellaneous nonmetallic mineral products	-	21	5	0.4	5.4	0.3	0.5	2.7	12.5	14.7	27.3	0.4	0.6	15.1
33	Primary metal industries	-	53	31	5.0	74.3	3.9	7.9	53.5	130.3	142.5	265.4	6.6	4.9	83.9
332	Iron and steel foundries	-	9	7	0.8	8.9	0.6	1.1	6.2	15.6	9.2	24.8	(D)	0.9	9.6
336	Nonferrous foundries	-	20	12	0.9	12.3	0.8	1.6	9.9	27.1	20.1	46.4	1.1	0.9	13.0
3361	Aluminum foundries	-	12	9	0.8	10.7	0.7	1.3	8.6	20.8	15.4	36.0	(D)	(NA)	(NA)
339	Miscellaneous primary metal products	E1	14	6	0.5	4.3	0.4	0.8	2.8	8.7	4.0	12.9	1.4	0.4	5.6
34	Fabricated metal products	-	250	120	14.1	183.9	10.9	21.5	124.1	376.3	391.2	767.4	23.4	14.4	230.0
341	Metal cans and shipping containers	-	5	5	1.4	21.6	1.1	2.4	16.2	51.6	76.8	127.6	2.9	1.2	26.4
342	Cutlery, hand tools, and hardware	-	14	6	1.0	12.4	0.9	1.6	10.4	17.2	30.5	46.9	1.4	(NA)	(NA)
344	Fabricated structural metal products	-	76	43	4.7	62.3	3.5	7.0	40.0	126.1	125.6	251.2	7.1	5.2	79.8
3441	Fabricated structural metal	-	17	6	0.5	6.5	0.3	0.7	3.5	16.6	13.3	30.1	1.2	0.5	9.7
3443	Fabricated plate work (boiler shops)	-	15	11	1.6	20.7	1.2	2.3	13.5	41.8	33.6	75.2	1.8	0.8	12.2
3444	Sheet metal work	-	22	15	1.2	16.0	0.9	1.7	9.9	28.0	33.2	61.6	1.4	1.8	27.7
3446	Architectural metal work	-	8	4	0.3	3.2	0.2	0.5	2.4	6.1	6.7	12.7	(D)	(NA)	(NA)
345	Screw machine products, bolts, etc.	-	16	12	0.5	6.5	0.4	0.7	4.4	15.3	12.7	27.9	0.6	0.4	7.9
3452	Bolts, nuts, rivets, and washers	-	7	5	0.3	4.0	0.2	0.4	2.6	10.8	10.0	20.7	0.4	(NA)	(NA)
346	Metal forgings and stampings	-	28	16	1.6	18.0	1.2	2.2	11.6	33.9	31.6	65.3	2.4	1.7	23.8
3469	Metal stampings, n.e.c.	-	24	13	1.5	16.5	1.1	2.0	10.8	31.5	29.8	61.1	(D)	1.6	22.1
347	Metal services, n.e.c.	-	43	11	0.9	9.5	0.7	1.4	6.6	16.7	12.8	29.6	1.6	0.9	10.6
3471	Plating and polishing	E1	30	9	0.7	7.1	0.6	1.1	5.1	11.9	9.0	21.0	1.4	0.6	7.2
349	Miscellaneous fabricated metal products	-	60	23	4.0	51.9	3.0	5.8	33.8	112.6	98.5	213.4	7.3	4.4	76.3
3494	Valves and pipe fittings	-	12	8	2.8	40.4	2.2	4.1	26.7	90.5	78.5	171.6	6.6	3.0	61.9
3499	Fabricated metal products, n.e.c.	-	32	9	0.7	8.0	0.5	0.9	4.3	15.5	13.4	28.6	0.4	0.9	8.8
35	Machinery, except electrical	-	367	121	23.4	328.8	14.4	28.3	179.5	624.7	459.5	1 084.0	27.6	17.3	314.2
353	Construction and related machinery	-	22	9	1.2	16.4	0.7	1.5	8.5	32.5	31.6	62.2	1.3	1.2	23.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Cincinnati, Ohio-Ky.-Ind., SMSA—Con.														
35	Machinery, except electrical —Con.														
353	Construction and related machinery—Con.														
3535	Conveyors and conveying equipment	-	8	3	0.7	9.3	0.3	0.6	3.5	16.8	17.2	32.4	0.5	0.8	14.3
354	Metalworking machinery	-	101	35	10.5	163.1	5.7	11.5	83.0	273.0	147.3	427.1	12.9	9.4	144.8
3545	Machine tool accessories	E2	10	6	0.7	10.8	0.6	1.1	6.9	19.5	9.0	28.5	0.2	0.6	9.6
3549	Metalworking machinery, n.e.c.	-	7	4	0.5	7.8	0.3	0.8	4.8	14.3	12.0	25.0	0.6	(NA)	(NA)
355	Special industry machinery	-	43	19	2.4	35.1	1.5	3.0	19.6	76.2	79.5	153.5	2.4	2.0	62.5
356	General industrial machinery	-	47	22	4.7	55.2	3.4	5.8	33.1	127.7	115.5	243.6	7.7	1.6	30.9
3564	Blowers and fans	-	12	4	0.3	3.4	0.2	0.4	2.1	6.7	6.3	12.9	(D)	(NA)	(NA)
3569	General industrial machinery, n.e.c.	-	13	8	0.8	10.8	0.5	1.0	5.3	22.6	18.5	40.6	1.6	0.5	11.5
358	Refrigeration and service machinery	-	18	10	2.2	27.4	1.4	2.8	15.7	55.3	56.1	109.4	0.4	0.9	17.0
3589	Service industry machinery, n.e.c.	-	7	3	0.4	4.6	0.2	0.3	1.8	10.8	9.8	20.5	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	126	20	1.7	21.7	1.4	2.6	14.5	41.5	21.2	62.2	2.5	1.6	24.9
36	Electric and electronic equipment	-	82	48	9.8	129.3	5.8	11.7	61.2	280.2	189.7	466.3	11.6	9.7	173.5
361	Electric distributing equipment	E1	9	8	1.0	11.6	0.7	1.4	7.0	24.5	20.1	44.6	0.4	(NA)	(NA)
362	Electrical industrial apparatus	-	10	5	2.2	33.9	1.2	2.7	15.7	61.5	37.1	98.2	(D)	2.5	43.0
364	Electric lighting and wiring equipment	-	17	13	1.8	19.4	1.2	2.3	10.9	40.6	38.5	77.8	1.2	1.5	28.4
3643	Current-carrying wiring devices	-	9	8	1.0	10.9	0.7	1.4	6.5	21.0	17.2	36.3	0.6	0.6	7.9
366	Communication equipment	-	12	6	1.4	16.9	0.6	1.3	5.5	26.0	22.1	47.3	0.3	1.6	17.3
3662	Radio and TV communication equipment	-	12	6	1.4	16.9	0.6	1.3	5.5	26.0	22.1	47.3	0.3	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	-	8	3	0.6	7.1	0.4	0.8	4.4	12.1	8.9	22.3	(D)	(NA)	(NA)
37	Transportation equipment	-	37	15	21.3	492.7	13.1	30.8	277.8	1 049.0	1 485.5	2 535.4	68.7	21.0	574.4
38	Instruments and related products	E1	49	20	1.8	21.2	1.2	2.3	11.5	40.5	36.6	76.1	1.8	1.8	29.6
382	Measuring and controlling devices	-	20	11	0.6	7.5	0.4	0.7	3.4	13.4	8.0	21.2	0.5	0.5	10.2
3829	Measuring and controlling devices, n.e.c.	-	10	7	0.4	4.0	0.2	0.4	1.7	7.4	4.1	11.4	0.2	(NA)	(NA)
384	Medical instruments and supplies	E1	16	4	0.8	8.7	0.6	1.0	5.0	21.7	22.1	43.3	1.1	1.0	14.8
39	Miscellaneous manufacturing industries	-	102	31	4.5	46.1	3.1	6.4	26.8	152.3	115.0	260.7	10.6	5.3	84.7
3993	Signs and advertising displays	E2	30	12	0.9	9.5	0.7	1.3	5.9	18.5	12.4	30.8	1.0	1.1	16.0
	Cleveland SMSA	-	4 475	1 654	285.4	4 262.6	175.9	357.3	2 524.1	6 105.9	8 600.4	16 599.6	543.1	268.9	5 220.9
20	Food and kindred products	-	169	67	8.5	108.8	5.1	10.2	60.2	208.5	531.9	741.6	15.5	8.9	210.7
201	Meat products	-	32	11	0.7	11.8	0.6	1.3	9.3	20.0	118.5	136.3	0.8	0.8	14.4
2011	Meat packing plants	-	14	6	0.4	6.8	0.3	0.8	5.6	12.4	96.6	108.7	0.4	0.4	7.4
2013	Sausages and other prepared meats	-	18	5	0.3	5.0	0.3	0.5	3.8	7.6	19.9	27.7	0.4	(NA)	(NA)
202	Dairy products	-	19	10	0.8	11.6	0.3	0.7	3.6	39.6	71.1	111.2	2.1	1.6	38.4
2026	Fluid milk	-	12	7	0.7	9.9	0.2	0.4	2.4	35.0	47.4	82.5	(D)	1.5	36.2
203	Preserved fruits and vegetables	-	12	7	1.6	17.1	1.0	2.1	11.2	-22.0	83.8	64.2	(D)	1.0	35.6
2035	Pickles, sauces, and salad dressings	-	5	3	0.3	3.6	0.2	0.5	2.3	6.1	11.8	20.3	0.2	(NA)	(NA)
2086	Bottled and canned soft drinks	E3	18	6	1.2	16.2	0.5	1.0	5.7	38.6	36.7	74.5	(D)	0.6	11.6
209	Miscellaneous foods and kindred products	E1	27	11	0.9	10.1	0.6	1.3	8.4	22.1	91.5	113.7	1.4	1.0	17.4
2099	Food preparations, n.e.c.	-	18	5	0.4	3.6	0.3	0.4	2.3	13.5	18.7	32.1	0.3	0.5	9.2
22	Textile mill products	E1	24	9	2.3	25.5	1.7	3.2	12.3	53.6	28.2	83.9	(D)	3.1	35.8
23	Apparel and other textile products	-	97	37	7.8	83.6	6.3	11.0	62.0	239.0	210.1	446.2	2.9	9.2	166.8
233	Women's and misses' outerwear	-	24	18	2.3	21.4	1.7	2.9	13.3	36.0	57.2	95.8	0.5	2.9	41.8

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Cleveland SMSA—Con.													
24	Lumber and wood products	E1	89	15	1.0	11.8	0.7	1.4	7.8	23.6	28.9	52.4	0.9	0.9	12.1
243	Millwork, plywood, and structural members	E1	44	9	0.5	7.1	0.4	0.8	4.8	12.7	17.2	29.7	0.4	0.4	6.4
25	Furniture and fixtures	-	76	23	2.4	27.6	1.9	3.6	20.0	53.3	53.7	105.7	2.4	3.3	58.4
251	Household furniture	E1	30	10	0.9	9.1	0.7	1.5	8.3	19.1	25.6	44.7	0.3	1.3	19.9
2514	Metal household furniture	-	6	3	0.5	4.9	0.4	0.8	3.6	9.3	15.5	24.9	0.1	(NA)	(NA)
2515	Mattresses and bedsprings	E1	8	5	0.3	3.0	0.2	0.4	1.7	7.8	8.4	16.2	0.1	0.3	5.5
254	Partitions and fixtures	-	28	8	1.2	14.7	0.9	1.7	11.1	27.6	22.7	49.2	1.8	1.2	25.4
2542	Metal partitions and fixtures	-	9	7	1.0	12.1	0.8	1.5	9.3	23.4	19.9	42.2	(D)	1.0	21.7
26	Paper and allied products	-	82	51	5.0	64.2	3.6	7.1	40.7	142.5	182.7	324.1	11.3	4.7	81.9
2642	Envelopes	-	4	3	0.5	6.4	0.4	0.8	4.1	9.5	9.7	19.1	(D)	(NA)	(NA)
2649	Converted paper products, n.e.c.	-	11	5	0.4	3.8	0.3	0.5	2.3	10.5	15.2	25.5	1.0	(NA)	(NA)
265	Paperboard containers and boxes	-	44	32	2.8	34.5	2.1	4.1	23.0	89.0	105.0	174.5	3.6	3.1	48.3
2651	Folding paperboard boxes	-	11	8	0.7	8.5	0.5	0.9	5.7	17.7	18.7	36.8	0.5	0.6	10.8
2653	Corrugated and solid fiber boxes	-	24	17	1.6	19.6	1.2	2.3	12.5	38.0	55.5	93.5	2.5	1.8	28.8
27	Printing and publishing	-	527	105	12.9	190.2	7.4	14.0	94.6	365.0	214.5	575.0	16.0	14.5	333.2
2711	Newspapers	-	36	13	4.1	60.7	1.5	2.8	23.3	121.3	49.9	171.1	3.4	4.5	88.3
2721	Periodicals	-	19	8	1.1	16.8	0.1	0.2	0.9	57.9	21.7	78.1	1.3	1.3	33.9
273	Books	-	22	3	0.3	3.8	(Z)	0.3	0.5	13.6	11.8	25.0	0.1	0.4	14.3
2741	Miscellaneous publishing	E1	20	5	0.3	2.5	0.1	0.2	0.9	5.0	1.9	6.9	0.1	(NA)	(NA)
2751	Commercial printing, letterpress	E2	177	19	1.7	21.1	1.4	2.6	14.0	39.4	30.2	69.6	1.9	1.9	33.7
2754	Commercial printing, gravure	-	9	2	0.4	7.6	0.4	0.7	6.8	13.8	12.2	26.0	(D)	0.8	13.1
2761	Manifold business forms	E1	12	3	0.3	3.9	0.2	0.4	2.7	7.3	7.2	14.4	0.3	(NA)	(NA)
278	Blankbooks and bookbinding	-	17	7	0.6	6.8	0.5	1.0	5.3	13.0	4.3	17.3	0.3	0.7	8.6
279	Printing trade services	E1	60	11	0.7	10.5	0.5	0.9	7.1	17.1	5.5	22.5	0.7	0.6	10.3
2791	Typesetting	E1	35	3	0.3	4.3	0.3	0.5	3.2	7.7	0.9	8.5	(D)	0.3	4.7
2795	Lithographic platemaking services	-	19	6	0.3	5.2	0.2	0.4	3.2	7.8	4.1	11.8	0.4	(NA)	(NA)
28	Chemicals and allied products	-	214	78	9.6	146.0	5.8	11.8	76.4	512.1	665.2	1 173.7	53.9	14.2	370.7
281	Industrial inorganic chemicals	-	25	7	1.8	27.8	1.0	2.1	14.8	63.1	108.7	171.4	8.2	2.3	53.4
2819	Industrial inorganic chemicals, n.e.c.	-	10	5	0.9	14.8	0.6	1.2	8.9	48.4	75.2	122.8	4.3	0.9	20.5
282	Plastics materials and synthetics	-	8	5	1.0	14.7	0.8	1.8	10.3	49.8	70.2	121.5	(D)	2.2	46.6
284	Soaps, cleaners, and toilet goods	-	40	8	0.6	8.8	0.4	0.7	3.7	53.2	56.1	107.4	(D)	0.8	36.8
2842	Polishes and sanitation goods	-	19	5	0.3	3.5	0.1	0.3	1.5	23.7	38.8	62.2	0.5	(NA)	(NA)
2851	Paints and allied products	-	41	20	2.4	35.7	1.4	2.9	17.8	116.4	146.9	263.0	3.1	3.1	89.1
286	Industrial organic chemicals	-	12	9	1.2	20.3	0.7	1.5	11.7	94.0	118.4	210.5	6.0	2.0	45.9
289	Miscellaneous chemical products	-	77	26	2.4	36.1	1.4	2.7	16.2	130.0	162.5	292.1	11.4	3.4	85.4
2891	Adhesives and sealants	-	14	7	0.7	9.6	0.4	0.7	4.5	29.2	43.8	72.3	1.0	1.0	25.7
2899	Chemical preparations, n.e.c.	-	52	13	1.5	23.1	0.8	1.7	10.1	92.5	104.0	196.7	9.9	2.1	51.4
29	Petroleum and coal products	-	41	23	1.8	28.3	0.7	1.5	8.8	62.8	117.8	180.4	(D)	1.1	26.5
295	Paving and roofing materials	-	23	12	1.2	19.3	0.5	0.9	5.0	42.4	51.6	93.1	(D)	0.5	11.5
30	Rubber and miscellaneous plastics products	-	167	79	9.6	104.6	7.5	14.5	68.8	202.1	216.9	415.6	11.2	8.9	155.4
3079	Miscellaneous plastics products	E1	127	57	4.9	50.7	3.9	7.5	33.0	116.4	117.9	231.6	7.6	4.3	91.7

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups end industries with 250 employees or more within SCSA's end SMSA's, except those thet would disclose operetions of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explenetion of terms, see appendix B]

SIC code	SMSA end industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollers)	Number (1,000)	Hours (mil.)	Weges (million dollers)	Value edded by manufecture (million dollars)	Cost of meterials[2] (million dollers)	Velue of shipments[2] (million dollars)	New capital expenditures (million dollers)	All employees (1,000)	Value added by manufacture (million dollars)
	Cleveland SMSA—Con.														
32	Stone, cley, end gless products	-	149	53	4.6	61.7	3.6	6.9	42.9	143.1	123.1	264.2	10.6	4.1	82.9
3272	Concrete products, n.e.c.	E1	20	5	0.4	5.7	0.3	0.7	4.5	13.9	9.1	22.3	0.3	0.5	9.9
3273	Reedy-mixed concrete	E1	29	12	0.8	11.9	0.6	1.2	8.5	26.9	41.9	68.7	2.1	0.6	16.7
3293	Geskets, packing, and seeling devices	-	11	6	0.4	3.5	0.3	0.6	2.5	6.5	6.1	12.4	0.5	(NA)	(NA)
3299	Nonmetellic mineral products, n.e.c.	-	10	5	0.5	5.2	0.4	0.6	3.9	11.2	7.0	18.5	(D)	(NA)	(NA)
33	Primary metal industries	-	188	106	29.2	554.1	23.7	48.5	429.6	1 302.6	1 484.9	2 778.3	73.6	29.6	661.4
331	Blest furnece end basic steel products	-	26	18	14.1	281.9	11.4	22.3	220.3	735.3	806.0	1 531.9	36.3	14.3	387.8
332	Iron end steel foundries	-	19	13	7.1	154.1	6.1	13.7	128.3	327.4	207.0	534.2	25.8	5.8	129.1
3341	Secondary nonferrous metals	-	18	13	1.2	18.0	0.9	1.9	12.6	43.5	189.6	232.6	(D)	1.2	20.6
335	Nonferrous rolling end drewing	-	13	9	2.1	35.1	1.6	3.5	24.1	63.7	160.5	224.9	2.8	2.8	28.0
3351	Copper rolling end drawing	-	4	4	1.2	19.6	0.9	1.9	15.2	16.9	100.6	118.7	(D)	1.2	4.2
336	Nonferrous foundries	-	56	33	3.5	50.5	2.8	5.4	34.7	102.3	104.2	207.5	3.7	4.6	78.6
3361	Aluminum foundries	-	35	22	2.7	39.0	2.1	4.0	26.8	72.8	79.2	153.6	3.0	3.7	64.4
3398	Metel heet treeting	E1	46	15	0.8	10.2	0.7	1.3	6.8	20.7	8.1	28.8	0.9	0.8	13.2
34	Fabricated metal products	-	774	347	44.7	680.2	34.5	71.4	487.8	1 384.6	1 400.9	2 753.0	74.4	41.5	825.2
341	Metel cans end shipping containers	-	13	7	1.0	14.0	0.8	1.6	9.8	35.6	49.6	87.3	(D)	1.0	21.7
3412	Metal berrels, drums, end peils	-	10	5	0.5	6.8	0.3	0.7	4.2	11.5	21.3	34.6	0.7	0.5	9.9
342	Cutlery, hend tools, and herdware	-	44	25	1.6	18.0	1.2	2.4	12.3	39.8	38.4	77.6	(D)	2.2	54.7
343	Plumbing end heating, except electric	-	28	11	1.4	20.2	0.9	1.9	11.4	41.8	37.6	79.0	1.7	1.7	34.9
344	Fabricated structural metal products	-	131	56	5.6	68.4	3.9	7.6	43.2	152.7	199.7	351.5	6.3	5.5	96.8
3441	Fabriceted structural metal	-	25	16	1.0	12.2	0.7	1.3	8.1	20.1	26.8	46.7	0.6	1.0	16.9
3443	Febricated plate work (boiler shops)	E1	25	8	0.8	11.8	0.6	1.2	8.0	19.4	19.7	39.0	1.3	0.8	13.1
3444	Sheet metal work	-	40	17	2.2	22.8	1.4	2.9	15.4	61.0	88.4	148.6	3.9	1.4	23.7
3446	Architectural metal work	-	20	7	0.9	11.5	0.6	1.2	6.8	22.2	36.5	59.3	0.2	(NA)	(NA)
3449	Miscelleneous metal work	-	8	2	0.4	6.7	0.3	0.5	2.9	22.0	17.9	39.5	(D)	0.7	9.9
345	Screw machine products, bolts, etc.	-	118	68	6.7	94.1	5.2	10.6	65.4	191.6	169.1	367.1	12.0	7.3	145.5
3451	Screw machine products	-	76	40	2.4	29.6	2.0	4.2	21.2	68.4	51.7	117.9	3.5	2.1	31.5
3452	Bolts, nuts, rivets, and washers	-	42	28	4.3	64.5	3.2	6.5	44.2	123.2	117.4	249.2	8.5	5.1	114.1
346	Metal forgings and stampings	-	148	81	17.8	331.2	14.7	31.8	258.7	633.4	648.6	1 259.4	38.3	15.8	338.2
3485	Automotive stampings	-	23	19	10.4	224.2	8.7	20.1	183.5	383.4	408.3	783.4	27.2	9.4	230.8
3469	Metal stampings, n.e.c.	-	98	46	3.8	45.7	3.0	6.2	31.8	88.5	80.4	166.9	3.5	2.8	44.3
3471	Pleting and polishing	E1	109	29	1.6	16.6	1.3	2.5	11.5	33.7	13.5	47.0	1.7	1.6	24.0
349	Miscellaneous fabricated metal products	-	144	57	6.7	87.2	4.9	9.6	54.3	208.2	215.3	403.3	8.2	6.1	103.3
3494	Valves end pipe fittings	-	30	17	2.8	38.4	1.9	4.0	23.5	107.2	106.4	196.6	4.8	1.6	34.2
3496	Miscellaneous fabriceted wire products	-	26	10	0.9	11.3	0.7	1.4	7.0	17.9	14.3	32.2	0.6	1.3	20.4
3498	Fabricated pipe end fittings	-	13	5	0.5	6.0	0.4	0.8	4.1	20.8	17.0	35.5	0.7	0.3	5.9
3499	Fabricated metal products, n.e.c.	-	60	18	1.4	17.9	1.1	2.0	11.6	40.8	34.5	74.5	1.5	1.6	21.0
35	Machinery, except electrical	-	1 140	326	44.0	679.9	31.2	63.3	435.4	1 397.4	945.4	2 331.1	61.2	42.1	860.0
352	Ferm end garden machinery	-	6	4	0.4	4.1	0.4	0.9	2.4	10.1	8.8	18.7	(D)	(NA)	(NA)
353	Construction end releted mechinery	-	64	40	10.4	175.1	6.9	14.1	108.6	397.5	382.7	774.2	12.3	8.7	172.0
3531	Construction mechinery	-	15	9	3.1	60.1	2.1	4.4	38.7	183.3	186.1	357.2	3.2	3.1	82.4
3532	Mining mechinery	-	6	4	0.8	10.7	0.5	1.0	5.7	21.5	23.6	45.3	0.9	(NA)	(NA)
3536	Holsts, crenes, and monorails	-	9	7	1.2	16.9	0.7	1.4	8.6	25.1	35.5	63.8	1.7	0.7	10.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Cleveland SMSA—Con.														
35	Machinery, except electrical —Con.														
353	Construction and related machinery—Con.														
3537	Industrial trucks and tractors	-	20	10	4.6	76.0	3.1	8.0	48.0	130.8	121.4	256.0	4.4	4.0	64.3
354	Metalworking machinery	-	378	112	14.3	219.8	10.2	21.1	141.2	438.6	199.9	637.6	18.3	13.4	250.8
3541	Machine tools, metal cutting types	-	36	17	4.6	70.3	2.9	5.8	42.5	139.9	76.5	219.8	(D)	4.3	70.3
3542	Machine tools, metal forming types	-	18	10	1.2	18.8	0.8	1.6	10.7	37.3	25.9	65.0	0.9	1.4	24.2
3544	Special dies, tools, jigs, and fixtures	E1	238	48	3.3	49.9	2.6	5.7	36.0	84.6	37.5	119.8	5.1	3.0	58.9
3545	Machine tool accessories	-	65	27	4.1	63.0	3.2	6.5	42.1	130.7	45.2	175.0	5.0	3.6	74.5
3546	Power driven hand tools	-	6	5	0.6	9.4	0.4	0.8	5.3	24.9	8.8	31.3	1.6	0.8	13.3
3549	Metalworking machinery, n.e.c.	-	12	3	0.4	6.9	0.3	0.6	3.8	15.7	5.1	20.5	(D)	(NA)	(NA)
355	Special industry machinery	-	71	38	4.9	76.4	3.2	6.5	46.7	145.6	114.4	252.6	6.6	4.6	105.2
3551	Food products machinery	-	8	5	0.6	7.7	0.3	0.6	3.7	14.8	9.8	24.4	0.4	(NA)	(NA)
3559	Special industry machinery, n.e.c.	-	46	27	3.7	58.0	2.6	5.2	38.0	105.1	89.0	189.5	5.9	3.1	64.5
356	General industrial machinery	-	115	38	3.8	55.9	2.6	5.2	33.9	118.6	75.4	194.9	8.3	4.3	79.6
3564	Blowers and fans	-	12	7	0.5	5.9	0.3	0.6	3.2	11.0	10.4	21.3	0.5	0.5	7.4
3565	Industrial patterns	E1	30	4	0.3	5.2	0.3	0.5	4.1	8.1	2.1	10.3	0.4	0.3	6.2
3566	Speed changers, drives, and gears	-	12	8	1.2	18.4	0.8	1.7	11.7	42.5	23.8	66.6	(D)	1.1	21.4
3567	Industrial furnaces and ovens	-	13	5	0.4	5.1	0.2	0.5	2.5	11.2	5.7	17.5	0.3	0.7	14.1
3568	Power transmission equipment, n.e.c.	-	8	5	0.5	7.7	0.3	0.8	4.2	22.0	11.0	33.2	(D)	0.5	14.1
3569	General industrial machinery, n.e.c.	-	30	6	0.8	11.6	0.5	1.1	6.7	19.4	18.6	38.2	1.4	1.0	14.8
358	Refrigeration and service machinery	-	28	14	1.0	11.9	0.7	1.4	7.0	28.5	25.3	52.5	0.7	2.1	31.1
3585	Refrigeration and heating equipment	-	11	8	0.6	7.0	0.4	0.8	4.0	17.0	15.8	32.1	0.3	(NA)	(NA)
359	Miscellaneous machinery, except electrical	-	465	74	7.8	120.0	6.1	12.5	85.9	231.1	125.5	353.5	15.2	6.6	138.1
36	Electric and electronic equipment	-	203	113	21.7	315.9	14.7	28.7	184.5	786.5	666.8	1 433.7	48.7	20.6	420.3
361	Electric distributing equipment	E1	18	8	0.7	7.8	0.5	1.0	4.6	13.1	14.6	27.0	(D)	1.1	19.8
362	Electrical industrial apparatus	-	49	30	7.3	143.7	4.7	9.9	84.4	340.0	262.8	596.2	31.1	6.2	145.2
3621	Motors and generators	-	8	6	1.5	24.9	1.2	2.9	18.3	48.1	26.9	75.2	(D)	1.7	32.1
3622	Industrial controls	-	16	8	1.9	29.3	0.9	1.8	11.9	73.2	39.0	111.1	3.7	1.7	28.1
3629	Electrical industrial apparatus, n.e.c.	-	9	5	0.8	13.3	0.3	0.6	4.1	53.8	25.5	77.7	(D)	(NA)	(NA)
363	Household appliances	-	14	9	2.1	24.4	1.6	3.1	15.4	86.0	95.2	179.3	2.0	1.5	51.5
364	Electric lighting and wiring equipment	-	47	33	4.7	55.0	3.7	6.9	37.6	127.8	93.4	218.0	4.9	5.5	90.0
3643	Current-carrying wiring devices	-	7	5	0.6	7.6	0.4	0.9	4.7	20.2	10.6	29.1	(D)	0.8	16.6
3644	Noncurrent-carrying wiring devices	-	9	8	0.6	7.5	0.4	0.7	3.7	14.4	9.0	23.2	0.3	(NA)	(NA)
3648	Lighting equipment, n.e.c.	-	6	4	0.4	5.6	0.4	0.7	3.9	9.9	9.3	19.6	0.1	(NA)	(NA)
366	Communication equipment	-	17	8	1.5	13.2	1.0	1.8	8.1	27.2	54.5	76.4	(D)	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	-	18	11	4.2	58.8	2.4	4.5	26.5	152.1	114.5	263.5	6.2	3.3	70.8
37	Transportation equipment	-	103	41	26.4	560.8	20.7	47.2	428.3	979.8	1 574.8	2 538.5	149.3	31.7	764.3
371	Motor vehicles and equipment	-	58	23	20.8	462.7	17.1	39.9	370.1	788.2	1 480.7	2 274.2	(D)	23.1	593.4
372	Aircraft and parts	-	22	13	5.1	92.6	3.3	6.7	54.6	179.3	81.0	239.0	(D)	6.6	119.1
38	Instruments and related products	-	107	39	6.6	84.4	3.7	7.0	36.5	164.6	85.6	247.9	(D)	6.1	95.7
382	Measuring and controlling devices	-	42	19	5.3	69.9	2.7	5.2	28.0	135.3	62.3	196.1	(D)	5.1	79.9
3825	Instruments to measure electricity	-	21	10	1.9	23.4	1.1	2.1	10.1	47.8	27.6	73.4	1.9	1.4	28.6
39	Miscellaneous manufacturing industries	-	158	44	4.1	43.1	3.1	5.8	27.2	83.5	68.1	152.2	2.6	3.9	60.8
3931	Musical instruments	-	9	3	0.6	6.4	0.5	1.0	4.5	12.1	8.6	20.7	(D)	(NA)	(NA)
394	Toys and sporting goods	E1	22	3	0.4	3.4	0.3	0.6	2.3	8.5	5.4	13.8	0.4	0.3	4.3

See footnotes at end of table.

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	Cleveland SMSA—Con.														
39	Miscellaneous manufacturing industries—Con.														
395	Pens, pencils, office and art supplies	-	16	3	0.3	3.4	0.2	0.4	1.9	5.8	7.2	13.0	(D)	0.5	8.0
399	Miscellaneous manufactures	-	92	33	2.6	28.5	2.0	3.6	17.6	54.2	44.2	99.4	1.8	2.6	40.4
3991	Brooms and brushes	-	17	11	1.0	12.2	0.8	1.4	7.4	25.2	20.5	45.2	(D)	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	E1	40	6	0.8	7.4	0.8	1.1	4.7	11.6	13.7	26.8	0.3	(NA)	(NA)
	Columbus SMSA	-	1 315	500	96.2	1 384.3	63.1	122.8	814.7	2 969.4	2 830.7	5 772.3	165.4	102.4	1 989.2
20	Food and kindred products	-	106	58	8.0	110.0	5.4	11.1	70.5	494.2	719.5	1 210.2	19.1	8.6	251.7
201	Meat products	-	23	9	0.9	9.0	0.7	1.3	6.2	8.8	86.3	95.2	0.8	0.8	9.9
2011	Meat packing plants	-	14	6	0.6	6.8	0.5	1.1	5.1	3.4	71.0	74.4	0.5	0.6	7.5
202	Dairy products	-	12	7	1.3	17.6	0.7	1.5	10.3	87.5	115.1	201.5	3.0	1.5	47.7
2026	Fluid milk	-	5	3	0.5	6.6	0.2	0.3	2.0	18.3	42.6	60.8	(D)	0.7	12.7
204	Grain mill products	-	11	8	1.0	15.0	0.8	1.6	11.0	65.2	98.5	162.5	2.2	0.4	10.7
205	Bakery products	-	16	11	1.5	19.3	1.2	2.4	14.8	47.1	45.8	92.9	1.4	1.7	25.3
209	Miscellaneous foods and kindred products	-	18	6	0.5	5.2	0.4	0.9	3.5	63.6	69.5	131.2	0.3	0.7	32.3
22	Textile mill products	-	6	4	1.0	12.9	0.7	1.4	8.8	25.5	36.6	60.8	(D)	(NA)	(NA)
23	Apparel and other textile products	E3	37	6	0.5	3.0	0.4	0.6	1.9	5.6	5.3	11.0	0.2	0.9	13.1
239	Miscellaneous fabricated textile products	E2	27	4	0.3	1.9	0.2	0.4	1.1	3.4	3.2	6.8	0.1	0.8	12.5
24	Lumber and wood products	E1	37	8	0.7	6.4	0.6	1.0	4.2	13.2	15.3	28.1	0.8	1.3	19.5
243	Millwork, plywood, and structural members	-	15	6	0.5	4.5	0.4	0.8	2.8	9.3	11.2	20.1	0.3	(NA)	(NA)
25	Furniture and fixtures	-	24	9	1.2	14.9	1.0	1.8	10.2	23.2	22.3	45.2	0.4	1.3	20.6
251	Household furniture	E1	9	3	0.5	5.4	0.4	0.8	4.2	6.8	11.4	18.4	(Z)	0.6	9.3
26	Paper and allied products	-	31	17	1.6	21.7	1.1	2.3	15.0	47.1	67.9	114.8	4.9	2.2	35.8
2631	Paperboard mills	-	3	3	0.4	5.1	0.3	0.6	3.9	17.8	17.7	35.4	(D)	0.4	9.5
265	Paperboard containers and boxes	-	12	9	0.9	12.3	0.6	1.1	8.1	20.4	36.3	57.0	1.6	1.2	18.0
2653	Corrugated and solid fiber boxes	-	8	6	0.7	11.1	0.5	0.9	7.2	17.9	33.0	51.0	1.5	1.1	16.1
27	Printing and publishing	-	228	52	6.7	84.9	3.5	6.6	45.9	228.9	105.3	334.2	6.8	6.5	126.8
2711	Newspapers	-	32	8	1.9	26.4	1.0	1.7	16.2	55.6	23.0	78.6	1.3	2.0	37.0
2721	Periodicals	-	17	5	0.5	4.5	(Z)	0.1	0.4	26.9	19.6	46.7	(D)	(NA)	(NA)
275	Commercial printing	E1	147	27	2.3	28.2	1.7	3.2	19.3	47.6	31.9	79.6	2.9	2.0	29.3
2751	Commercial printing, letterpress	E2	70	7	0.6	6.2	0.5	0.9	4.3	11.3	8.0	19.2	(D)	(NA)	(NA)
2752	Commercial printing, lithographic	-	74	19	1.6	21.4	1.2	2.2	14.6	34.6	23.2	58.0	2.2	1.6	24.0
28	Chemicals and allied products	-	69	27	3.2	46.3	1.5	3.1	17.7	140.1	226.6	363.3	5.8	2.9	76.5
281	Industrial inorganic chemicals	-	10	3	0.3	4.9	0.2	0.5	3.0	9.0	16.5	25.9	1.0	0.4	7.1
282	Plastics materials and synthetics	-	6	4	0.4	6.3	0.2	0.5	3.4	19.9	58.1	77.6	(D)	(NA)	(NA)
2851	Paints and allied products	-	7	5	1.1	18.0	0.5	1.0	6.3	82.4	93.8	153.7	1.2	1.0	32.6
289	Miscellaneous chemical products	E1	17	6	0.4	5.5	0.2	0.5	2.1	17.7	24.4	41.8	1.0	0.3	10.2
2891	Adhesives and sealants	-	8	5	0.4	5.1	0.2	0.4	1.9	16.2	22.8	38.7	0.8	0.3	9.6
30	Rubber and miscellaneous plastics products	-	49	23	3.6	51.4	2.7	5.4	33.8	144.4	131.0	270.2	15.3	4.0	90.2
32	Stone, clay, and glass products	-	88	37	10.2	134.9	8.0	15.4	94.8	323.2	185.6	505.6	24.9	10.6	224.8
3272	Concrete products, n.e.c.	-	16	6	0.4	4.8	0.3	0.5	2.5	8.2	8.9	15.2	0.4	0.5	8.7
3273	Ready-mixed concrete	E2	16	3	0.3	4.8	0.2	0.4	2.4	10.0	15.5	25.5	1.1	0.4	11.2

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Columbus SMSA—Con.														
33	Primary metal industries	-	33	18	4.0	54.3	3.2	5.9	42.5	65.1	116.6	203.8	6.3	3.8	51.4
332	Iron and steel foundries	-	12	11	3.3	46.4	2.8	5.0	37.2	60.5	40.6	103.0	5.0	3.1	39.2
344	Fabricated structural metal products	-	47	17	3.5	43.6	2.3	4.6	28.0	95.8	120.7	215.2	3.7	2.3	33.7
3441	Fabricated structural metal	-	10	4	0.5	8.1	0.3	0.7	3.9	10.7	10.3	20.7	0.6	0.4	6.6
3443	Fabricated plate work (boiler shops)	-	12	7	1.6	19.1	1.0	2.1	11.3	55.9	48.7	103.9	1.8	0.5	10.5
3444	Sheet metal work	-	14	4	1.0	13.3	0.8	1.5	10.5	19.1	56.0	75.0	1.2	(NA)	(NA)
345	Screw machine products, bolts, etc.	-	9	3	0.3	3.4	0.3	0.5	2.8	7.8	5.6	13.2	0.1	0.9	15.3
3469	Metal stampings, n.e.c.	E1	12	7	0.4	5.0	0.3	0.6	2.9	9.9	6.3	16.1	0.8	(NA)	(NA)
347	Metal services, n.e.c.	-	17	10	0.9	10.3	0.7	1.4	7.0	21.6	11.9	33.4	0.3	(NA)	(NA)
3471	Plating and polishing	-	12	6	0.5	5.9	0.4	0.8	4.1	12.3	2.9	15.2	0.3	(NA)	(NA)
3479	Metal coating and allied services	-	5	4	0.4	4.3	0.3	0.6	2.9	9.3	9.1	16.2	0.1	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	28	7	0.6	9.9	0.6	1.2	8.3	23.4	19.3	43.0	0.5	1.1	16.1
35	Machinery, except electrical	-	202	69	11.8	158.2	6.3	15.9	105.2	262.5	364.2	639.7	15.7	11.4	227.1
352	Farm and garden machinery	-	8	8	0.4	4.6	0.3	0.5	2.5	12.6	10.7	23.2	0.3	0.3	8.3
353	Construction and related machinery	-	16	6	2.2	23.7	1.3	2.4	15.3	82.7	44.8	105.6	(D)	1.9	35.1
354	Metalworking machinery	E1	26	9	1.0	14.5	0.7	1.4	9.4	24.0	10.2	32.8	0.9	1.1	16.6
3544	Special dies, tools, jigs, and fixtures	E2	19	5	0.3	4.6	0.3	0.5	3.8	6.2	3.5	11.5	0.4	0.3	5.9
356	General industrial machinery	-	36	14	3.7	55.2	2.9	5.5	40.4	94.6	129.2	216.6	5.0	2.9	52.5
3561	Pumps and pumping equipment	-	7	3	0.5	5.9	0.4	0.7	4.4	12.7	5.7	17.0	(D)	0.3	6.1
3564	Blowers and fans	-	4	4	0.8	8.9	0.6	1.1	5.7	13.2	15.2	29.5	(D)	(NA)	(NA)
358	Refrigeration and service machinery	-	19	9	2.5	34.6	1.7	3.1	21.5	36.9	132.7	172.5	2.1	2.5	72.8
3585	Refrigeration and heating equipment	-	10	7	2.4	33.6	1.6	3.0	21.1	37.0	130.7	168.6	2.1	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	74	12	1.0	13.6	0.8	1.8	9.1	22.4	12.4	34.6	2.3	0.9	11.7
3599	Machinery, except electrical, n.e.c.	E2	74	12	1.0	13.6	0.8	1.6	9.1	22.4	12.4	34.8	2.3	0.9	11.7
36	Electric and electronic equipment	-	60	25	12.6	176.4	9.9	16.8	127.0	403.4	305.1	684.9	12.2	18.0	341.6
362	Electrical industrial apparatus	-	6	4	0.5	6.4	0.2	0.5	2.6	11.2	14.0	22.9	(D)	1.0	15.9
364	Electric lighting and wiring equipment	-	9	5	1.5	16.9	1.3	2.4	14.1	55.6	42.0	97.2	1.3	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	-	9	3	1.1	7.8	0.9	1.7	6.2	19.6	14.4	34.2	(D)	1.1	6.6
37	Transportation equipment	-	36	11	5.1	87.2	2.7	5.6	42.9	157.1	63.7	246.4	4.7	6.2	116.7
3714	Motor vehicle parts and accessories	-	11	3	1.1	15.2	0.9	1.6	11.9	32.1	21.0	53.2	(D)	1.4	25.2
36	Instruments and related products	-	44	19	4.9	86.7	3.1	5.9	34.9	103.1	61.6	164.6	(D)	4.6	61.5
362	Measuring and controlling devices	-	19	10	4.4	63.6	2.6	5.3	32.3	92.7	53.9	145.6	(D)	4.1	75.7
39	Miscellaneous manufacturing industries	-	58	15	1.3	15.1	1.0	1.6	8.9	27.6	19.1	46.4	1.4	1.1	17.2
399	Miscellaneous manufactures	-	40	12	1.1	13.2	0.6	1.6	7.9	23.9	15.2	36.9	1.3	1.1	15.6
3993	Signs and advertising displays	-	27	7	0.5	5.9	0.4	0.8	3.9	11.1	6.3	17.3	(D)	0.5	6.3
--	Administrative and auxiliary	-	59	35	6.8	135.5	-	-	-	-	-	-	-	(NA)	(NA)
	Dayton SMSA	-	1 302	506	106.5	1 748.3	72.9	150.4	1 120.4	3 281.0	2 975.8	6 159.6	266.8	118.8	2 152.9
20	Food and kindred products	E1	65	25	3.3	43.2	2.1	4.1	25.8	124.3	365.7	512.7	9.3	3.5	68.3
201	Meat products	E1	14	7	1.3	16.1	1.0	2.0	12.9	30.9	156.5	187.6	(D)	1.2	20.2
202	Dairy products	-	6	5	0.5	6.6	0.2	0.4	2.5	21.2	107.1	126.5	1.0	0.7	13.0
205	Bakery products	-	10	3	0.5	6.3	0.3	0.7	3.6	14.3	10.0	23.6	0.3	0.5	13.8

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Dayton SMSA—Con.														
20	Food and kindred products—Con.														
208	Beverages	E4	8	4	0.5	6.4	0.2	0.4	2.2	22.0	24.3	45.7	0.7	0.6	12.2
22	Textile mill products	–	6	3	0.7	5.7	0.5	1.1	3.6	16.1	10.0	24.4	(D)	0.9	8.4
23	Apparel and other textile products	–	26	6	0.3	2.1	0.3	0.5	1.5	4.8	4.8	9.6	0.1	0.4	3.0
24	Lumber and wood products	E1	49	19	1.2	11.7	1.0	1.8	8.8	23.1	45.1	68.8	(D)	1.2	16.7
243	Millwork, plywood, and structural members	E2	16	5	0.3	3.4	0.3	0.5	2.8	6.0	7.8	13.9	(D)	0.4	4.7
245	Wood buildings and mobile homes	–	7	6	0.4	5.0	0.4	0.7	3.7	11.1	30.3	41.4	0.4	0.5	8.4
25	Furniture and fixtures	E1	25	7	0.6	5.2	0.5	0.8	3.5	9.0	10.6	19.4	0.3	0.3	3.8
251	Household furniture	–	12	4	0.4	2.8	0.4	0.6	2.2	5.4	8.0	13.2	0.2	(NA)	(NA)
26	Paper and allied products	–	38	26	5.0	69.8	3.0	6.3	39.6	134.6	183.1	318.8	13.3	5.2	89.2
2621	Paper mills, except building paper	–	3	3	0.8	12.4	0.6	1.4	10.3	21.3	50.1	71.5	(D)	1.2	14.8
264	Miscellaneous converted paper products	–	21	11	3.1	43.7	1.6	3.3	20.0	89.6	89.1	180.3	7.9	3.0	56.4
2651	Folding paperboard boxes	–	4	4	0.3	3.0	0.2	0.4	1.9	5.4	5.5	10.4	0.1	(NA)	(NA)
2653	Corrugated and solid fiber boxes	E2	4	4	0.4	5.3	0.3	0.6	3.3	9.1	18.4	27.5	(D)	0.5	6.9
27	Printing and publishing	–	139	39	8.1	117.0	6.0	11.4	87.1	202.0	144.3	345.7	23.1	9.2	170.0
275	Commercial printing	–	86	18	4.7	71.7	3.9	7.5	59.2	99.2	94.8	194.5	(D)	5.9	95.2
279	Printing trade services	–	17	5	0.3	4.7	0.2	0.4	3.2	7.3	1.6	8.8	0.6	0.3	5.6
28	Chemicals and allied products	–	48	18	2.1	28.9	1.3	2.6	15.8	68.0	73.6	138.9	5.4	1.9	39.8
284	Soaps, cleaners, and toilet goods	–	10	4	0.6	7.8	0.5	0.9	5.6	16.3	12.9	29.1	0.6	0.7	11.9
2851	Paints and allied products	–	8	4	0.4	4.6	0.2	0.4	2.6	13.0	22.1	34.9	(D)	0.6	12.6
289	Miscellaneous chemical products	–	17	8	1.0	14.1	0.5	1.1	6.2	31.8	27.9	58.9	1.4	0.5	13.2
2891	Adhesives and sealants	–	4	4	0.8	11.5	0.4	0.9	5.3	21.2	19.5	40.0	1.2	0.3	8.2
30	Rubber and miscellaneous plastics products	–	53	28	11.8	215.1	9.3	18.9	163.1	466.0	339.3	779.7	27.8	10.1	250.2
32	Stone, clay, and glass products	–	56	23	2.0	25.6	1.6	3.1	16.2	59.4	52.5	112.4	4.8	1.8	39.3
33	Primary metal industries	–	43	29	3.2	43.0	2.7	5.2	32.6	87.9	71.8	159.9	4.0	3.6	54.5
336	Nonferrous foundries	–	18	12	1.0	13.9	0.9	1.7	10.3	22.5	17.0	39.6	1.1	1.0	11.0
34	Fabricated metal products	–	157	60	6.8	95.0	4.5	9.0	50.8	171.3	122.2	291.1	7.6	6.5	106.7
344	Fabricated structural metal products	–	49	15	1.5	19.1	1.1	2.1	11.7	34.2	42.2	75.5	1.6	1.6	22.3
3442	Metal doors, sash, and trim	–	11	4	0.5	4.3	0.4	0.6	2.7	7.2	10.9	18.0	0.4	0.7	10.7
3443	Fabricated plate work (boiler shops)	E1	7	3	0.3	4.2	0.2	0.5	2.9	7.4	7.7	14.8	0.5	(NA)	(NA)
345	Screw machine products, bolts, etc.	–	18	10	0.7	8.7	0.8	1.2	6.3	15.1	10.5	25.4	0.7	0.4	7.1
3469	Metal stampings, n.e.c.	–	11	4	0.4	6.1	0.4	0.7	4.8	11.8	8.5	19.9	0.5	0.3	6.6
347	Metal services, n.e.c.	–	28	8	0.5	5.0	0.4	0.8	3.4	8.8	4.0	12.8	0.2	(NA)	(NA)
3471	Plating and polishing	–	22	8	0.5	4.6	0.4	0.8	3.1	7.9	3.5	11.4	0.2	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	29	15	1.3	16.8	1.1	2.4	12.2	50.3	38.4	87.9	2.8	0.8	23.6
35	Machinery, except electrical	–	379	131	25.7	449.7	19.2	41.5	325.8	931.6	592.4	1 498.9	75.3	38.5	917.5
353	Construction and related machinery	–	9	4	0.4	5.5	0.2	0.6	3.2	13.3	7.3	20.5	(D)	(NA)	(NA)
354	Metalworking machinery	–	192	63	5.5	96.6	4.2	9.3	69.3	174.5	62.9	230.9	8.1	4.6	93.7
3544	Special dies, tools, jigs, and fixtures	–	145	49	3.7	68.3	3.0	7.1	52.6	108.3	38.3	143.2	5.5	3.4	66.0
3545	Machine tool accessories	–	25	4	0.9	15.5	0.5	0.9	8.0	33.3	12.2	44.6	0.7	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Dayton SMSA—Con.														
35	Machinery, except electrical —Con.														
354	Metalworking machinery—Con.														
3549	Metalworking machinery, n.e.c.	–	6	4	0.3	3.9	0.2	0.4	2.2	8.5	5.1	13.0	0.4	(NA)	(NA)
355	Special industry machinery	–	23	18	3.5	49.2	2.1	4.4	27.6	99.8	59.9	153.7	4.6	2.4	52.6
3559	Special industry machinery, n.e.c.	–	13	10	0.8	11.1	0.5	1.0	6.0	14.2	10.7	26.0	0.9	0.3	5.0
356	General industrial machinery	–	44	16	3.8	52.9	2.6	5.4	32.5	122.8	72.2	193.7	8.0	2.2	40.9
3564	Blowers and fans	–	5	4	0.9	10.5	0.7	1.4	8.0	27.1	21.2	47.7	(D)	(NA)	(NA)
3569	General industrial machinery, n.e.c.	–	17	3	0.7	9.1	0.4	0.9	5.1	22.4	12.7	35.7	1.6	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	90	24	1.4	19.4	1.1	2.9	14.0	34.2	16.2	49.2	(D)	1.3	22.4
3599	Machinery, except electrical, n.e.c.	E1	90	24	1.4	19.4	1.1	2.9	14.0	34.2	16.2	49.2	(D)	1.3	22.4
36	Electric and electronic equipment	–	63	29	13.6	190.2	9.6	19.4	120.7	358.6	398.4	748.3	28.9	5.6	91.7
362	Electrical industrial apparatus	–	10	8	3.7	49.7	2.1	4.7	26.8	93.5	102.0	192.1	4.5	3.6	56.9
37	Transportation equipment	–	35	18	13.7	293.9	10.3	22.8	216.2	562.9	510.3	1 061.4	(D)	13.6	270.5
38	Instruments and related products	–	26	8	0.8	9.2	0.4	0.8	4.5	19.9	10.5	29.8	1.2	0.5	7.5
39	Miscellaneous manufacturing industries	E1	45	8	0.7	6.8	0.5	1.0	3.8	12.9	13.1	25.5	0.4	0.6	10.3
399	Miscellaneous manufactures	E1	29	6	0.5	5.1	0.4	0.8	3.0	10.3	10.2	20.1	0.2	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	E1	17	3	0.3	2.7	0.2	0.4	1.6	6.3	4.7	10.8	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	40	27	6.8	133.7	–	–	–	–	–	–	–	(NA)	(NA)
	Hamilton-Middletown SMSA	–	238	102	29.4	508.5	20.5	40.5	329.4	962.3	1 153.1	2 121.6	57.9	28.5	585.5
20	Food and kindred products	–	7	2	0.3	3.9	0.2	0.4	2.5	44.6	20.9	65.4	(D)	(NA)	(NA)
25	Furniture and fixtures	–	7	6	1.1	10.5	0.8	1.3	6.9	19.0	24.1	42.3	(D)	0.6	11.0
26	Paper and allied products	–	18	18	5.4	83.4	4.4	9.1	65.0	142.8	233.8	381.6	6.9	5.8	105.9
2621	Paper mills, except building paper	–	5	5	3.3	55.1	2.7	5.7	43.4	91.2	161.9	259.3	(D)	3.7	69.4
265	Paperboard containers and boxes	–	7	7	1.1	14.1	0.8	1.6	10.4	26.4	37.7	63.2	(D)	1.1	19.9
27	Printing and publishing	–	25	7	0.6	7.4	0.4	0.6	4.2	16.2	4.6	20.7	(D)	0.6	9.0
275	Commercial printing	–	17	3	0.3	3.3	0.2	0.4	2.6	6.8	2.0	8.8	(D)	(NA)	(NA)
34	Fabricated metal products	–	39	17	6.0	114.9	4.6	9.7	85.7	231.8	268.1	493.9	14.9	4.9	133.2
349	Miscellaneous fabricated metal products	–	16	8	2.1	26.7	1.5	2.7	16.7	55.8	41.5	96.0	(D)	(NA)	(NA)
	Huntington-Ashland, W. Va.-Ky.-Ohio, SMSA	–	339	125	29.6	438.8	20.9	40.9	288.1	754.3	1 982.8	2 728.9	233.7	25.7	530.1
20	Food and kindred products	–	21	12	0.9	9.4	0.4	0.9	4.4	22.0	47.6	69.2	(D)	0.8	15.7
24	Lumber and wood products	E2	42	4	0.3	2.7	0.3	0.6	2.3	5.5	7.7	13.4	0.7	0.6	7.1
25	Furniture and fixtures	E1	13	5	0.3	2.6	0.2	0.5	1.6	4.8	7.0	11.8	0.1	0.4	3.6
251	Household furniture	E1	10	4	0.3	1.9	0.2	0.4	1.2	3.7	6.3	10.0	(D)	(NA)	(NA)
27	Printing and publishing	–	38	4	0.7	7.4	0.4	0.8	4.4	18.3	6.6	24.9	1.3	0.7	10.3
2711	Newspapers	–	14	3	0.5	5.7	0.3	0.5	3.2	13.3	3.4	16.8	0.6	0.6	8.3
28	Chemicals and allied products	–	18	9	1.8	28.7	1.3	2.7	19.0	92.7	138.3	226.5	(D)	1.5	48.0
286	Industrial organic chemicals	–	4	3	0.6	9.1	0.4	0.9	6.2	24.0	32.6	54.8	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	44	18	3.3	44.1	2.8	6.4	35.8	93.6	53.9	147.5	5.4	3.3	59.7
3229	Pressed and blown glass, n.e.c.	–	6	5	0.4	3.3	0.3	0.5	2.3	4.9	2.2	7.1	0.5	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Huntington-Ashland, W. Va.-Ky.-Ohio, SMSA—Con.														
32	Stone, clay, and glass products—Con.														
325	Structural clay products	-	7	6	0.3	4.3	0.3	1.4	3.5	13.1	11.5	24.9	0.5	0.3	4.5
329	Miscellaneous nonmetallic mineral products	-	4	3	0.6	7.3	0.5	1.0	5.5	17.9	8.1	25.8	(D)	0.5	9.5
33	Primary metal industries	-	12	7	10.2	179.0	8.0	15.2	134.9	300.9	686.8	992.5	41.1	9.6	242.6
34	Fabricated metal products	E1	29	13	1.2	11.3	0.9	1.8	7.6	23.4	21.8	44.6	1.7	1.0	11.7
344	Fabricated structural metal products	E1	16	9	0.8	7.0	0.6	1.0	4.6	12.8	13.9	26.7	0.8	0.5	7.5
35	Machinery, except electrical	E1	43	15	1.9	23.0	1.3	2.3	14.7	47.3	46.7	88.6	2.3	1.0	12.1
353	Construction and related machinery	-	14	9	1.5	17.5	0.9	1.8	10.9	37.1	42.0	73.7	1.8	0.8	8.6
359	Miscellaneous machinery, except electrical	E5	22	5	0.4	4.8	0.3	0.6	3.4	8.8	4.0	12.7	0.7	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E5	22	5	0.4	4.8	0.3	0.6	3.4	8.8	4.0	12.7	0.7	(NA)	(NA)
	Lima SMSA	-	**330**	**138**	**30.8**	**451.8**	**23.4**	**47.2**	**322.9**	**1 218.0**	**2 487.4**	**3 844.9**	**78.4**	**28.2**	**668.0**
20	Food and kindred products	-	38	21	2.3	28.5	1.6	3.4	18.1	93.2	248.7	341.4	8.5	2.1	49.4
202	Dairy products	-	8	7	1.1	12.3	0.7	1.6	7.6	47.7	134.7	181.8	(D)	1.0	18.8
203	Preserved fruits and vegetables	-	7	2	0.3	2.7	0.3	0.5	2.2	9.5	14.4	23.7	0.9	(NA)	(NA)
23	Apparel and other textile products	-	8	5	0.4	2.5	0.4	0.7	2.1	4.3	8.6	12.8	(D)	(NA)	(NA)
24	Lumber and wood products	-	21	5	0.6	5.9	0.5	1.0	4.8	9.0	18.9	28.1	0.7	0.7	6.9
26	Paper and allied products	-	6	4	0.6	8.1	0.5	1.0	6.1	17.7	21.0	38.6	0.1	0.6	9.3
27	Printing and publishing	-	42	10	0.7	7.0	0.5	0.9	4.3	17.2	11.3	28.4	0.8	0.8	14.7
2711	Newspapers	-	14	7	0.3	3.2	0.2	0.3	1.2	8.9	2.5	11.4	0.2	0.5	8.6
3079	Miscellaneous plastics products	-	8	2	0.3	3.5	0.3	0.6	2.8	7.4	7.0	14.3	0.2	(NA)	(NA)
32	Stone, clay, and glass products	-	30	8	1.2	13.3	1.0	1.7	9.7	30.5	17.9	48.1	1.5	1.2	20.9
34	Fabricated metal products	-	47	25	3.7	48.6	2.7	5.2	30.0	116.6	146.3	260.5	8.7	3.4	72.9
344	Fabricated structural metal products	-	11	7	0.7	8.8	0.5	1.0	5.5	16.9	21.8	38.1	0.9	0.5	10.0
346	Metal forgings and stampings	-	14	10	1.5	16.7	1.2	2.3	12.2	37.5	42.2	79.1	4.8	1.2	21.5
3465	Automotive stampings	-	6	4	0.7	7.8	0.6	1.0	5.9	21.0	26.8	47.3	(D)	0.5	9.5
3469	Metal stampings, n.e.c.	-	8	8	0.8	8.9	0.6	1.2	6.4	16.4	15.5	31.8	(D)	0.7	12.1
35	Machinery, except electrical	-	63	25	4.8	64.8	3.6	6.7	43.9	141.0	136.3	270.0	7.6	4.3	79.7
352	Farm and garden machinery	-	9	4	0.3	3.1	0.2	0.4	2.0	7.9	11.9	20.7	0.5	(NA)	(NA)
3523	Farm machinery and equipment	-	9	4	0.3	3.1	0.2	0.4	2.0	7.9	11.9	20.7	0.5	(NA)	(NA)
355	Special industry machinery	-	7	4	0.6	7.5	0.4	0.7	4.6	17.6	28.1	42.9	0.9	0.3	2.8
356	General industrial machinery	-	6	5	0.3	2.9	0.2	0.3	1.8	5.5	4.0	9.2	0.3	(NA)	(NA)
36	Electric and electronic equipment	-	10	5	3.4	47.7	2.5	5.3	33.4	83.1	84.6	163.8	3.8	(NA)	(NA)
37	Transportation equipment	-	16	10	6.8	138.1	5.5	12.3	109.7	303.5	542.6	815.7	34.0	5.4	126.2
3714	Motor vehicle parts and accessories	-	9	7	5.2	116.0	4.3	10.1	92.9	269.1	502.6	743.8	(D)	(NA)	(NA)
	Lorain-Elyria SMSA	-	**341**	**124**	**39.8**	**710.5**	**30.4**	**83.5**	**521.0**	**1 848.8**	**3 387.2**	**5 193.0**	**93.8**	**36.1**	**1 033.1**
28	Chemicals and allied products	-	8	4	1.2	21.4	0.8	1.8	14.6	58.8	101.9	160.4	(D)	1.1	32.1
332	Iron and steel foundries	-	4	4	0.9	12.4	0.7	1.5	8.9	25.4	17.5	43.2	1.3	1.3	19.6
34	Fabricated metal products	-	67	34	7.9	139.3	5.7	12.4	93.9	313.4	262.1	567.2	19.9	6.7	179.5

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Lorain-Elyria SMSA—Con.													
34	Fabricated metal products—Con.													
344	Fabricated structural metal products	E1	11	6	0.6	8.2	0.4	0.7	5.4	18.7	9.5	27.9	0.7	0.5	10.4
345	Screw machine products, bolts, etc.	–	16	9	1.1	15.6	0.7	1.5	8.8	37.8	21.3	58.0	2.2	0.9	22.1
349	Miscellaneous fabricated metal products	–	13	9	1.3	16.1	1.0	2.1	11.6	31.3	19.8	49.8	(D)	0.7	12.3
3494	Valves and pipe fittings	–	4	3	0.5	5.4	0.3	0.7	3.8	12.2	8.2	19.0	(D)	(NA)	(NA)
35	Machinery, except electrical	–	77	17	3.4	44.1	2.3	4.4	27.2	111.3	92.5	204.8	4.5	3.9	88.9
354	Metalworking machinery	E1	19	4	0.3	4.0	0.2	0.5	3.0	8.1	3.1	9.0	0.4	(NA)	(NA)
356	General industrial machinery	–	15	5	1.0	14.3	0.5	1.0	7.4	46.5	13.2	59.7	(D)	(NA)	(NA)
36	Electric and electronic equipment	–	16	6	1.2	14.8	0.8	1.7	7.8	25.7	15.7	40.9	0.9	(NA)	(NA)
372	Aircraft and parts	–	4	3	0.5	7.9	0.3	0.8	3.9	18.4	8.4	26.5	0.9	(NA)	(NA)
	Mansfield SMSA	–	**207**	**69**	**20.9**	**311.7**	**15.3**	**31.1**	**219.9**	**817.3**	**839.3**	**1 453.4**	**81.3**	**22.6**	**478.4**
27	Printing and publishing	–	27	6	0.9	10.5	0.6	1.2	6.6	22.3	15.0	37.0	0.7	1.0	17.2
3079	Miscellaneous plastics products	–	7	6	0.3	2.3	0.2	0.4	1.7	6.1	5.0	10.9	0.8	(NA)	(NA)
32	Stone, clay, and glass products	–	12	5	0.6	7.0	0.4	0.9	5.1	15.5	12.9	28.8	3.0	0.3	4.7
34	Fabricated metal products	–	38	27	4.7	93.7	4.0	8.9	75.8	186.1	219.3	404.1	15.8	4.9	113.9
35	Machinery, except electrical	–	42	10	1.8	23.8	1.2	2.4	13.8	52.9	42.9	94.9	0.6	1.4	26.7
353	Construction and related machinery	E1	7	4	0.3	4.5	0.2	0.4	2.6	8.9	7.7	16.3	0.3	(NA)	(NA)
36	Electric and electronic equipment	–	15	10	5.4	66.7	3.4	6.1	40.2	99.6	135.7	232.4	4.8	7.4	123.8
37	Transportation equipment	–	6	3	0.3	4.0	0.2	0.4	2.2	7.7	6.2	13.9	0.3	0.4	8.7
	Parkersburg-Marietta, W. Va.-Ohio, SMSA	–	**162**	**83**	**15.8**	**222.4**	**11.2**	**21.7**	**139.7**	**724.9**	**779.3**	**1 479.2**	**85.3**	**18.0**	**482.2**
24	Lumber and wood products	E1	31	2	0.3	2.3	0.3	0.5	1.8	4.8	5.6	10.4	0.8	(NA)	(NA)
27	Printing and publishing	–	18	4	0.4	4.3	0.2	0.4	2.2	9.8	3.5	13.4	0.3	0.4	6.4
28	Chemicals and allied products	–	12	8	4.5	81.1	3.0	6.2	46.8	427.4	404.8	808.4	64.9	6.6	265.1
32	Stone, clay, and glass products	–	27	10	2.7	35.7	2.2	4.3	27.6	80.4	40.8	121.2	4.0	2.6	49.6
322	Glass and glassware, pressed or blown	–	4	4	1.7	21.8	1.4	2.7	16.7	49.5	17.9	67.8	1.9	1.6	31.4
34	Fabricated metal products	–	19	11	2.0	24.3	1.3	2.3	14.8	60.1	70.6	133.4	0.8	2.1	42.2
344	Fabricated structural metal products	–	12	6	0.4	5.0	0.3	0.5	3.2	11.0	8.0	18.8	0.2	0.5	8.2
3444	Sheet metal work	–	4	3	0.3	3.2	0.2	0.3	2.1	5.7	2.9	8.5	(D)	0.4	4.5
	Springfield SMSA	–	**262**	**100**	**18.3**	**245.0**	**13.0**	**24.7**	**189.2**	**550.9**	**878.0**	**1 193.5**	**32.6**	**20.1**	**390.5**
20	Food and kindred products	–	16	4	1.5	10.3	0.3	0.6	3.4	24.8	39.5	63.6	(D)	0.7	17.1
26	Paper and allied products	–	7	5	0.4	5.2	0.3	0.7	3.9	14.7	15.5	30.0	(D)	(NA)	(NA)
27	Printing and publishing	–	24	9	0.8	8.8	0.5	0.9	5.9	17.2	8.7	25.9	0.8	0.6	9.4
30	Rubber and miscellaneous plastics products	–	11	3	0.5	3.7	0.4	0.8	2.7	7.8	5.6	13.5	0.8	0.4	5.6
3079	Miscellaneous plastics products	–	11	3	0.5	3.7	0.4	0.8	2.7	7.8	5.6	13.5	0.8	0.4	5.6
32	Stone, clay, and glass products	–	18	6	0.3	3.1	0.2	0.4	2.1	6.8	7.5	14.1	0.5	0.4	5.8
33	Primary metal industries	–	9	5	0.6	7.6	0.5	1.0	6.0	14.6	9.0	23.3	0.4	0.5	8.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Springfield SMSA—Con.														
34	Fabricated metal products	-	42	18	1.3	13.8	1.0	1.8	8.5	23.2	22.5	46.1	1.0	1.4	17.9
344	Fabricated structural metal products	E1	10	3	0.3	2.8	0.2	0.4	1.8	3.9	6.2	10.2	0.3	0.4	4.9
349	Miscellaneous fabricated metal products	-	9	3	0.4	5.1	0.2	0.4	2.4	7.9	5.7	13.8	0.2	0.5	8.4
35	Machinery, except electrical	-	69	23	3.8	50.9	2.6	5.0	30.3	133.3	87.4	210.8	4.4	3.1	51.4
354	Metalworking machinery	-	18	6	0.4	5.9	0.3	0.7	3.8	11.6	5.2	16.7	0.5	0.6	8.0
359	Miscellaneous machinery, except electrical	-	28	4	0.3	4.1	0.3	0.5	2.7	7.3	3.4	10.7	0.9	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	-	28	4	0.3	4.1	0.3	0.5	2.7	7.3	3.4	10.7	0.9	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	9	2	0.4	5.0	0.4	0.7	3.7	9.0	5.8	14.7	(D)	0.4	4.9
	Steubenville-Weirton, Ohio-W. Va., SMSA	-	138	87	26.7	497.8	21.2	41.0	382.8	955.0	1 843.9	2 601.8	87.9	29.0	705.7
26	Paper and allied products	-	10	7	0.6	6.8	0.4	0.8	4.7	14.1	20.0	34.3	2.4	(NA)	(NA)
264	Miscellaneous converted paper products	-	6	4	0.3	3.5	0.2	0.5	2.4	7.9	11.0	18.9	(D)	(NA)	(NA)
28	Chemicals and allied products	-	6	4	0.4	6.9	0.3	0.7	4.2	29.7	49.7	79.0	(D)	0.5	17.3
32	Stone, clay, and glass products	-	27	17	3.5	34.6	3.0	5.3	28.0	61.3	31.9	90.9	6.2	3.8	41.2
3255	Clay refractories	-	7	5	0.5	7.2	0.4	0.9	5.4	14.7	10.0	24.3	(D)	(NA)	(NA)
34	Fabricated metal products	-	17	11	1.4	19.3	1.1	2.1	13.5	65.0	109.8	175.6	2.2	1.7	34.0
346	Metal forgings and stampings	-	4	2	0.5	6.4	0.4	0.7	4.4	11.0	13.5	24.8	0.4	(NA)	(NA)
	Toledo, Ohio-Mich., SMSA	-	1 247	455	92.7	1 504.2	85.2	128.4	963.8	3 203.0	5 007.8	8 189.9	259.7	91.2	1 878.9
20	Food and kindred products	-	87	30	4.3	56.4	3.2	6.4	38.1	234.7	463.2	696.3	9.7	5.1	149.7
201	Meat products	-	15	5	0.5	5.9	0.4	0.8	4.7	17.6	110.5	127.6	0.5	0.4	3.3
202	Dairy products	-	7	7	0.5	6.8	0.3	0.6	3.3	17.9	56.7	74.4	1.0	0.6	8.8
205	Bakery products	-	10	4	0.5	6.3	0.3	0.5	3.7	15.7	13.6	29.3	0.7	0.7	13.3
22	Textile mill products	-	6	4	1.1	15.2	0.7	1.5	9.4	31.2	54.4	86.6	(D)	1.6	33.4
24	Lumber and wood products	-	46	14	1.1	11.6	0.8	1.5	6.8	27.3	34.4	60.5	0.8	1.3	20.4
243	Millwork, plywood, and structural members	-	17	8	0.4	3.5	0.3	0.6	2.5	10.7	11.3	21.1	0.3	0.3	3.7
25	Furniture and fixtures	-	29	11	2.2	23.5	1.7	3.1	15.6	35.0	31.7	65.1	2.7	1.9	30.9
251	Household furniture	-	11	6	1.8	18.8	1.4	2.6	12.8	26.6	25.1	50.9	2.3	1.4	21.7
26	Paper and allied products	-	37	27	2.9	37.6	2.3	4.8	27.6	72.6	105.9	178.0	5.0	3.1	53.4
2631	Paperboard mills	-	3	3	0.6	10.9	0.5	1.2	8.5	12.9	17.4	30.8	1.0	(NA)	(NA)
264	Miscellaneous converted paper products	-	12	8	1.1	11.3	0.8	1.7	8.1	25.9	37.3	62.3	2.1	(NA)	(NA)
2643	Bags, except textile bags	-	3	3	0.3	3.4	0.3	0.5	2.5	7.1	11.2	18.2	(D)	(NA)	(NA)
265	Paperboard containers and boxes	-	22	16	1.2	15.3	0.9	1.9	11.0	33.8	51.2	84.9	2.0	1.3	22.1
2653	Corrugated and solid fiber boxes	E1	16	11	0.9	11.5	0.7	1.3	8.0	24.1	34.9	59.1	1.5	0.9	14.4
27	Printing and publishing	-	146	18	2.3	34.7	1.4	2.5	19.3	97.2	25.6	122.6	3.7	2.4	42.1
2752	Commercial printing, lithographic	-	35	7	0.4	6.0	0.3	0.6	3.7	10.5	7.5	17.9	1.1	0.4	5.7
28	Chemicals and allied products	-	47	15	1.9	31.8	1.2	2.3	18.6	134.0	197.0	324.2	3.5	1.9	84.2
284	Soaps, cleaners, and toilet goods	-	10	3	0.4	5.9	0.2	0.4	2.8	34.5	22.0	58.2	0.2	0.5	34.5
289	Miscellaneous chemical products	-	12	5	0.4	5.2	0.2	0.4	2.5	15.2	21.8	36.7	0.8	(NA)	(NA)
29	Petroleum and coal products	-	17	7	1.7	35.2	1.1	2.4	22.7	325.5	1 529.8	1 841.0	30.9	1.7	146.6

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Toledo, Ohio-Mich., SMSA—Con.													
29	Petroleum and coal products—Con.													
2911	Petroleum refining	-	3	3	1.3	30.5	0.9	1.9	19.8	310.4	1 505.5	1 801.8	(D)	1.6	140.9
30	Rubber and miscellaneous plastics products	-	58	33	3.4	39.4	2.7	5.3	26.9	89.0	90.5	177.3	48.4	3.0	47.5
32	Stone, clay, and glass products	-	86	30	10.1	168.5	8.5	17.4	138.0	388.3	261.5	643.7	31.9	9.8	285.6
33	Primary metal industries	-	53	35	8.5	98.5	5.3	10.5	75.3	171.2	323.4	496.5	14.5	8.1	112.4
331	Blast furnace and basic steel products	-	15	11	1.9	29.4	1.5	3.1	23.5	42.9	110.3	157.2	3.1	1.3	29.2
3317	Steel pipe and tubes	-	5	5	0.9	13.1	0.8	1.5	10.8	24.1	29.5	53.8	(D)	0.4	8.2
332	Iron and steel foundries	-	13	8	1.2	15.8	1.0	2.0	12.5	28.1	17.1	44.8	1.0	0.8	13.5
3325	Steel foundries, n.e.c.	-	3	3	0.8	10.9	0.6	1.3	8.9	19.2	9.7	28.5	(D)	(NA)	(NA)
34	Fabricated metal products	-	173	82	9.4	139.3	7.5	14.4	101.6	302.2	414.2	713.8	21.5	7.5	125.1
341	Metal cans and shipping containers	-	4	4	0.6	10.9	0.5	1.1	9.0	29.7	57.3	85.8	(D)	(NA)	(NA)
3411	Metal cans	-	4	4	0.6	10.9	0.5	1.1	9.0	29.7	57.3	85.8	(D)	(NA)	(NA)
344	Fabricated structural metal products	-	37	13	1.3	20.3	1.0	1.7	13.8	48.3	104.9	151.8	2.7	1.2	19.4
3444	Sheet metal work	E1	12	3	0.6	9.1	0.4	0.7	6.7	22.0	75.4	98.5	(D)	(NA)	(NA)
345	Screw machine products, bolts, etc.	-	14	3	0.4	5.0	0.3	0.7	4.0	6.7	11.3	17.9	0.4	0.4	6.0
346	Metal forgings and stampings	-	54	39	5.2	79.7	4.3	8.3	60.1	187.4	187.5	356.2	12.8	3.8	62.3
3465	Automotive stampings	-	25	21	3.4	56.1	2.8	5.6	42.6	124.1	145.5	270.4	11.2	2.4	40.4
347	Metal services, n.e.c.	-	28	7	0.5	4.7	0.4	0.8	3.3	9.0	3.2	12.2	0.4	0.5	9.2
3471	Plating and polishing	-	22	4	0.3	3.4	0.3	0.5	2.3	7.0	2.2	9.2	(D)	0.3	6.7
349	Miscellaneous fabricated metal products	-	25	11	0.9	11.5	0.7	1.3	8.0	21.9	34.6	56.4	1.1	1.1	18.1
3499	Fabricated metal products, n.e.c.	-	11	5	0.3	5.1	0.3	0.5	3.8	7.2	14.5	21.5	0.3	(NA)	(NA)
35	Machinery, except electrical	-	256	60	7.7	118.0	5.2	10.5	70.8	250.0	158.4	411.2	10.4	9.7	163.4
354	Metalworking machinery	-	101	23	1.9	30.6	1.5	3.0	22.2	46.3	32.4	78.4	2.3	1.9	35.1
356	General industrial machinery	-	37	11	2.7	44.4	1.5	3.1	22.8	79.4	59.5	138.7	4.3	2.6	49.0
358	Refrigeration and service machinery	-	8	4	0.9	10.3	0.7	1.4	6.7	22.4	21.8	43.6	(D)	1.1	21.3
359	Miscellaneous machinery, except electrical	E2	67	8	0.6	8.5	0.5	0.9	6.0	14.1	7.9	21.9	1.3	1.0	16.0
3599	Machinery, except electrical, n.e.c.	E2	67	8	0.6	8.5	0.5	0.9	6.0	14.1	7.9	21.9	1.3	(NA)	(NA)
36	Electric and electronic equipment	-	29	13	5.7	95.7	4.1	7.8	81.0	237.9	139.1	370.1	(D)	5.8	132.1
37	Transportation equipment	-	50	26	20.9	392.9	17.8	34.8	319.4	758.7	1 144.8	1 900.2	58.2	19.5	411.4
371	Motor vehicles and equipment	-	31	19	19.5	370.5	16.8	33.0	305.4	716.3	1 107.0	1 818.3	56.8	17.8	381.3
373	Ship and boat building and repairing	-	9	3	0.6	7.9	0.6	0.8	7.2	11.8	3.4	15.2	(D)	0.8	9.6
38	Instruments and related products	-	22	5	0.9	9.2	0.6	1.2	5.8	21.0	11.6	32.4	0.6	0.4	7.3
384	Medical instruments and supplies	-	13	4	0.8	8.2	0.8	1.1	5.2	18.1	10.0	28.1	0.5	0.4	6.5
39	Miscellaneous manufacturing industries	-	34	7	0.9	7.7	0.7	1.3	4.9	24.6	17.3	40.7	0.5	1.3	17.1
--	Administrative and auxiliary	-	45	31	9.3	188.4	-	-	-	-	-	-	-	(NA)	(NA)
	Wheeling, W. Va.-Ohio, SMSA	-	158	88	13.0	173.5	9.8	17.9	117.2	427.3	552.0	978.6	40.3	13.3	202.8
20	Food and kindred products	-	20	10	0.9	11.0	0.5	1.0	4.9	42.7	59.8	102.3	3.7	1.3	23.3
202	Dairy products	-	8	5	0.4	4.8	0.1	0.3	1.4	20.3	36.7	56.9	(D)	0.4	6.8
23	Apparel and other textile products	E6	7	3	0.7	3.9	0.6	1.0	3.4	5.0	0.8	5.6	(D)	0.7	3.7
27	Printing and publishing	-	23	4	0.4	4.3	0.2	0.4	1.4	9.7	3.1	12.7	0.4	0.5	7.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Wheeling, W. Va.-Ohio, SMSA—Con.														
28	Chemicals and allied products	-	10	4	1.7	32.9	1.1	2.2	20.4	92.7	122.3	220.8	(D)	0.7	28.7
32	Stone, clay, and glass products	-	15	6	1.1	12.5	0.8	1.5	8.6	24.5	10.8	34.9	1.6	1.2	12.8
33	Primary metal industries	-	11	7	1.4	21.7	1.1	2.0	17.1	47.5	50.0	96.8	1.4	(NA)	(NA)
34	Fabricated metal products	-	19	15	3.3	42.9	2.7	4.7	32.4	110.0	193.8	298.6	4.3	2.6	34.2
349	Miscellaneous fabricated metal products	-	3	3	1.2	11.8	1.0	1.6	8.7	26.8	25.8	52.1	0.9	0.9	14.3
	Youngstown-Warren SMSA	-	820	258	79.5	1 388.2	82.8	120.4	1 028.7	2 820.2	3 996.0	8 812.1	131.0	(NA)	(NA)
20	Food and kindred products	E1	39	15	1.4	17.1	0.7	1.5	8.0	41.2	72.9	114.3	3.3	(NA)	(NA)
208	Beverages	E4	4	4	0.3	3.9	0.1	0.2	1.2	10.1	8.8	18.9	(D)	(NA)	(NA)
2086	Bottled and canned soft drinks	E4	4	4	0.3	3.9	0.1	0.2	1.2	10.1	8.8	18.9	(D)	(NA)	(NA)
23	Apparel and other textile products	-	13	5	0.7	4.5	0.7	1.0	2.4	9.8	9.0	18.8	0.1	(NA)	(NA)
26	Paper and allied products	-	4	4	0.4	4.9	0.3	0.6	3.2	9.2	13.2	22.2	0.7	(NA)	(NA)
27	Printing and publishing	-	52	10	1.3	18.4	0.8	1.8	11.8	37.5	29.8	67.3	1.3	(NA)	(NA)
275	Commercial printing	-	33	6	0.5	7.2	0.4	0.8	5.4	13.3	21.7	35.1	(D)	(NA)	(NA)
2752	Commercial printing, lithographic	-	15	5	0.4	5.8	0.3	0.6	4.5	9.9	18.8	28.7	0.1	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	30	15	1.5	18.7	1.3	2.7	14.0	34.2	33.4	68.0	1.1	(NA)	(NA)
33	Primary metal industries	-	43	32	26.4	489.4	21.4	39.3	384.0	799.6	1 738.8	2 565.9	46.3	(NA)	(NA)
331	Blast furnace and basic steel products	-	15	15	23.7	448.4	19.4	35.4	355.8	707.4	1 553.4	2 298.6	37.7	(NA)	(NA)
3318	Cold finishing of steel shapes	-	4	4	1.2	22.3	0.9	1.6	15.9	45.2	93.8	136.3	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing	-	11	11	1.9	30.0	1.4	2.8	20.2	62.7	132.4	188.2	5.3	(NA)	(NA)
34	Fabricated metal products	-	127	73	9.4	155.3	7.4	14.3	112.9	325.8	354.6	668.1	18.0	(NA)	(NA)
341	Metal cans and shipping containers	-	8	5	0.7	9.9	0.6	1.1	7.9	23.5	28.3	51.8	(D)	(NA)	(NA)
344	Fabricated structural metal products	-	55	31	2.4	32.3	1.8	3.3	21.8	70.3	85.8	154.6	2.6	(NA)	(NA)
3441	Fabricated structural metal	-	9	4	0.5	6.5	0.3	0.6	3.9	13.5	20.5	33.7	0.9	(NA)	(NA)
3442	Metal doors, sash, and trim	-	16	9	0.8	9.6	0.6	1.1	6.5	17.3	22.0	38.9	0.4	(NA)	(NA)
3449	Miscellaneous metal work	-	8	3	0.3	3.5	0.2	0.4	2.3	14.3	20.2	34.0	0.1	(NA)	(NA)
346	Metal forgings and stampings	-	17	13	3.8	76.2	3.1	8.2	57.9	142.0	142.3	280.3	(D)	(NA)	(NA)
3489	Metal stampings, n.e.c.	-	11	7	1.0	15.0	0.7	1.3	9.5	26.0	35.3	59.4	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	28	15	2.0	30.3	1.5	2.9	20.5	70.9	85.0	150.1	3.6	(NA)	(NA)
3499	Fabricated metal products, n.e.c.	-	18	10	1.1	17.2	0.9	1.6	12.0	32.4	58.5	89.0	(D)	(NA)	(NA)
35	Machinery, except electrical	-	118	37	5.2	79.8	4.0	7.4	57.2	192.4	140.3	322.2	4.6	(NA)	(NA)
354	Metalworking machinery	-	51	18	2.6	39.8	2.2	4.0	32.5	104.6	79.9	178.2	1.9	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	35	6	0.4	4.5	0.3	0.8	3.3	8.4	4.8	13.3	0.3	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E1	35	6	0.4	4.5	0.3	0.6	3.3	8.4	4.8	13.3	0.3	(NA)	(NA)
--	Administrative and auxiliary	-	12	5	1.4	28.0	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Adams County	-	**29**	5	**1.0**	**10.2**	**0.9**	**1.6**	**8.9**	**23.6**	**34.3**	**57.9**	**2.1**	**0.6**	**14.3**
	Allen County	-	**156**	**72**	**16.6**	**272.6**	**12.6**	**28.1**	**197.0**	**795.5**	**1 677.1**	**2 820.4**	**51.6**	**15.5**	**400.5**
20	Food and kindred products	-	16	10	0.7	9.1	0.4	0.6	4.3	22.6	51.6	74.9	1.5	0.8	19.0
34	Fabricated metal products	-	19	12	1.4	16.4	1.2	2.2	12.2	39.6	42.9	62.0	1.2	1.7	30.6
346	Metal forgings and stampings	-	4	4	0.7	7.8	0.6	1.1	6.1	16.4	21.2	39.3	0.6	(NA)	(NA)
35	Machinery, except electrical	-	31	11	2.3	29.6	1.8	3.1	22.2	57.5	66.7	119.4	1.7	2.3	34.2
371	Motor vehicles and equipment	-	7	6	5.5	120.4	4.5	10.3	95.3	270.7	519.4	760.4	(D)	(NA)	(NA)
	Ashland County	-	**61**	**34**	**7.7**	**90.4**	**5.4**	**11.2**	**57.3**	**215.4**	**229.4**	**445.9**	**7.1**	**7.4**	**128.3**
30	Rubber and miscellaneous plastics products	-	7	7	1.4	16.1	1.1	2.2	10.7	39.6	29.0	68.3	1.2	1.3	23.7
35	Machinery, except electrical	-	20	7	1.6	19.2	1.0	2.2	12.1	41.6	35.3	75.5	0.8	1.5	22.3
	Ashtabula County	-	**167**	**77**	**12.8**	**184.2**	**10.2**	**19.0**	**116.6**	**388.8**	**456.6**	**843.5**	**41.0**	**12.8**	**235.6**
28	Chemicals and allied products	-	12	8	1.1	19.0	0.6	1.7	12.9	55.6	103.5	162.0	13.9	1.3	37.7
30	Rubber and miscellaneous plastics products	-	23	16	3.2	34.6	2.6	5.3	26.5	63.7	63.2	126.3	7.8	2.3	32.1
3079	Miscellaneous plastics products	-	17	13	2.9	31.2	2.5	4.9	24.0	57.6	60.2	117.3	7.7	(NA)	(NA)
34	Fabricated metal products	-	26	13	1.7	20.1	1.3	2.4	14.9	55.3	40.6	94.1	2.5	2.7	40.6
35	Machinery, except electrical	-	26	2	0.5	6.4	0.5	0.9	5.2	11.2	13.7	23.7	0.7	0.5	6.3
36	Electric and electronic equipment	-	6	8	2.2	27.9	1.7	3.0	19.7	73.9	45.3	119.4	4.0	1.7	39.7
	Athens County	-	**44**	**12**	**1.3**	**13.5**	**1.0**	**1.8**	**6.7**	**31.1**	**25.0**	**53.6**	**1.4**	**1.3**	**16.9**
	Auglaize County	-	**75**	**32**	**6.6**	**83.7**	**5.0**	**9.6**	**56.3**	**199.7**	**289.6**	**484.8**	**14.3**	**5.6**	**100.4**
20	Food and kindred products	-	9	6	0.9	8.9	0.6	1.1	4.6	36.0	61.3	116.9	(D)	0.7	11.2
34	Fabricated metal products	-	12	6	0.5	5.6	0.4	0.7	3.7	11.9	11.7	23.5	(D)	(NA)	(NA)
35	Machinery, except electrical	-	19	9	2.2	31.3	1.6	3.2	19.2	73.6	55.2	125.7	5.3	1.6	32.7
	Belmont County	-	**64**	**22**	**4.1**	**53.1**	**3.2**	**5.6**	**39.3**	**140.5**	**226.8**	**368.2**	**5.4**	**5.2**	**69.3**
32	Stone, clay, and glass products	-	10	3	0.5	5.1	0.4	0.7	3.6	9.0	4.3	13.2	(D)	0.6	5.6
	Brown County	-	**23**	**8**	**1.1**	**11.5**	**0.8**	**1.8**	**8.2**	**16.9**	**23.0**	**46.2**	**0.6**	**0.7**	**11.5**
	Butler County (Coextensive with Hamilton-Middletown, Ohio, SMSA; see table 6.)														
	Carroll County	-	**36**	**16**	**1.5**	**16.2**	**1.2**	**2.2**	**11.1**	**40.6**	**45.5**	**65.4**	**1.6**	**1.2**	**20.3**
	Champaign County	-	**50**	**17**	**3.0**	**31.8**	**2.4**	**4.7**	**24.1**	**113.2**	**75.6**	**160.2**	**5.2**	**3.0**	**71.7**
	Clark County	-	**212**	**83**	**15.3**	**213.4**	**10.6**	**20.1**	**145.1**	**437.7**	**600.4**	**1 013.3**	**27.4**	**17.2**	**316.8**
33	Primary metal industries	-	9	5	0.6	7.6	0.5	1.0	6.0	14.6	9.0	23.3	0.4	0.5	8.0
34	Fabricated metal products	-	32	16	1.1	12.3	0.6	1.5	7.4	19.9	20.3	40.6	0.8	(NA)	(NA)
35	Machinery, except electrical	-	62	20	3.6	49.3	2.4	4.7	29.1	131.2	62.6	204.0	4.3	(NA)	(NA)
	Clermont County	-	**83**	**15**	**2.4**	**29.2**	**1.8**	**3.0**	**16.0**	**63.6**	**79.9**	**141.4**	**3.1**	**1.9**	**52.2**

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Clinton County	-	54	29	4.2	45.4	3.3	6.6	32.6	109.7	92.5	199.9	6.4	3.0	54.3
30	Rubber and miscellaneous plastics products	-	5	5	0.7	6.6	0.5	1.0	4.6	14.3	16.3	30.8	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	-	5	5	0.7	6.6	0.5	1.0	4.6	14.3	16.3	30.8	(D)	(NA)	(NA)
34	Fabricated metal products	-	13	9	1.2	13.3	1.1	2.2	10.5	35.9	21.9	56.6	2.0	1.6	30.3
	Columbiana County	-	204	77	10.5	127.6	7.9	14.9	65.6	247.4	184.7	422.4	9.4	10.2	143.4
25	Furniture and fixtures	-	8	4	0.6	5.4	0.5	0.8	3.8	9.1	10.2	19.2	(D)	(NA)	(NA)
251	Household furniture	-	8	4	0.6	5.4	0.5	0.8	3.8	9.1	10.2	19.2	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	31	14	2.2	22.8	1.8	3.5	16.4	45.2	27.5	72.8	1.4	2.2	32.2
325	Structural clay products	-	9	7	0.8	8.8	0.6	1.2	6.1	16.0	8.4	24.2	0.6	0.9	14.0
326	Pottery and related products	-	13	5	1.2	10.4	1.0	1.9	7.7	17.1	4.2	21.4	0.3	1.1	10.7
33	Primary metal industries	E1	12	6	0.5	6.2	0.4	0.8	4.8	11.1	11.6	22.6	0.8	(NA)	(NA)
34	Fabricated metal products	-	24	13	1.6	19.9	1.3	2.3	15.1	44.5	36.8	81.3	1.8	1.8	31.5
35	Machinery, except electrical	-	55	19	3.9	57.7	2.6	5.0	35.3	104.5	64.6	159.5	3.2	3.6	44.8
354	Metalworking machinery	-	20	9	1.4	22.7	1.0	2.1	15.0	39.8	22.5	56.1	1.3	1.3	15.4
356	General industrial machinery	-	7	3	1.1	16.1	0.6	1.3	8.8	29.9	21.2	48.4	1.0	1.0	12.3
	Coshocton County	-	55	24	5.2	74.2	3.6	7.7	47.9	163.6	200.8	362.8	16.0	5.3	112.2
27	Printing and publishing	-	8	3	0.8	8.4	0.3	0.6	2.9	14.3	6.7	20.9	(D)	0.7	9.3
	Crawford County	-	104	43	9.5	131.6	6.7	13.1	85.9	261.6	275.4	536.6	9.1	10.6	169.5
35	Machinery, except electrical	-	22	12	3.6	57.2	2.5	4.8	37.3	99.4	148.3	253.2	4.8	3.4	67.4
	Cuyahoga County	-	3 643	1 356	226.1	3 737.6	149.5	305.7	2 229.0	7 029.9	7 557.6	14 494.6	465.6	233.9	4 625.5
225	Knitting mills	E4	8	4	0.5	3.7	0.4	0.8	2.7	5.0	2.1	7.4	(D)	(NA)	(NA)
24	Lumber and wood products	E1	61	11	0.7	8.8	0.5	1.0	5.9	17.6	17.8	35.5	0.7	0.6	7.8
25	Furniture and fixtures	-	69	22	2.3	26.0	1.8	3.4	19.0	48.2	48.6	95.6	2.2	(NA)	(NA)
251	Household furniture	E1	24	9	0.7	7.5	0.6	1.2	5.3	14.2	20.7	35.2	(D)	(NA)	(NA)
2514	Metal household furniture	-	6	3	0.5	4.9	0.4	0.8	3.6	9.3	15.5	24.9	0.1	(NA)	(NA)
254	Partitions and fixtures	-	28	8	1.2	14.7	0.9	1.7	11.1	27.6	22.7	49.2	1.8	(NA)	(NA)
2542	Metal partitions and fixtures	-	9	7	1.0	12.1	0.8	1.5	9.3	23.4	19.9	42.2	(D)	(NA)	(NA)
26	Paper and allied products	-	71	46	3.9	47.8	3.0	5.9	32.2	95.7	141.0	237.0	(D)	4.0	62.1
264	Miscellaneous converted paper products	E1	33	17	1.3	15.4	1.0	2.0	10.3	31.1	40.0	70.8	(D)	1.0	15.1
2642	Envelopes	-	4	3	0.5	6.4	0.4	0.8	4.1	9.5	9.7	19.1	(D)	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	18	14	1.4	17.1	1.0	2.0	11.1	34.0	48.9	82.9	2.2	(NA)	(NA)
27	Printing and publishing	-	462	92	11.5	175.5	6.4	12.3	85.4	336.2	193.4	525.2	14.3	13.3	318.0
2711	Newspapers	-	27	8	3.7	56.6	1.3	2.4	21.7	113.1	46.0	159.0	3.0	(NA)	(NA)
2751	Commercial printing, letterpress	E1	159	18	1.6	19.7	1.3	2.4	13.0	36.8	27.7	64.5	1.8	(NA)	(NA)
2752	Commercial printing, lithographic	-	122	27	2.2	33.3	1.5	2.9	21.0	59.3	45.0	103.0	6.0	(NA)	(NA)
28	Chemicals and allied products	-	176	63	7.2	109.2	4.1	8.4	53.6	384.2	477.9	858.3	26.2	8.7	258.6
284	Soaps, cleaners, and toilet goods	-	36	8	0.6	8.5	0.3	0.7	3.6	51.3	54.9	104.3	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Cuyahoga County—Con.														
28	Chemicals and allied products—Con.														
2851	Paints and allied products	–	33	16	2.1	31.6	1.1	2.5	16.0	101.1	128.7	229.1	2.8	(NA)	(NA)
2899	Chemical preparations, n.e.c.	–	44	10	1.2	19.2	0.7	1.3	8.2	80.5	83.7	164.5	(D)	(NA)	(NA)
29	Petroleum and coal products	–	33	19	1.8	26.9	0.8	1.3	7.9	53.7	102.7	156.5	(D)	(NA)	(NA)
295	Paving and roofing materials	–	15	8	1.0	17.9	0.4	0.8	4.1	33.2	36.5	69.2	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	108	45	3.8	41.4	3.0	5.9	26.8	96.9	93.8	189.1	6.4	3.9	83.5
3079	Miscellaneous plastics products	E1	91	39	3.1	32.7	2.4	4.7	20.6	81.9	79.6	160.0	5.6	(NA)	(NA)
32	Stone, clay, and glass products	–	104	37	3.2	43.6	2.5	4.8	30.5	101.1	85.3	185.3	6.1	3.1	61.2
327	Concrete, gypsum, and plaster products	–	32	13	0.7	10.8	0.5	1.0	7.7	27.8	38.6	65.8	1.7	0.8	21.2
329	Miscellaneous nonmetallic mineral products	–	42	17	1.4	18.2	1.0	1.9	11.8	42.8	32.6	75.2	2.9	(NA)	(NA)
3299	Nonmetallic mineral products, n.e.c.	–	10	5	0.5	5.2	0.4	0.6	3.9	11.2	7.0	18.5	(D)	(NA)	(NA)
33	Primary metal industries	–	162	91	28.0	538.8	22.8	46.8	419.5	1 265.6	1 438.4	2 695.0	72.1	28.5	646.8
3341	Secondary nonferrous metals	–	18	13	1.2	18.0	0.9	1.9	12.6	43.5	189.6	232.6	(D)	(NA)	(NA)
3351	Copper rolling and drawing	–	4	4	1.2	19.6	0.9	1.9	15.2	16.9	100.6	118.7	(D)	(NA)	(NA)
339	Miscellaneous primary metal products	E2	46	17	0.9	11.9	0.7	1.4	8.3	25.8	15.1	40.2	(D)	(NA)	(NA)
34	Fabricated metal products	–	644	292	38.5	605.0	29.8	61.8	435.4	1 212.7	1 235.5	2 427.4	64.5	37.0	736.6
341	Metal cans and shipping containers	–	13	7	1.0	14.0	0.8	1.6	9.8	35.6	49.6	87.3	(D)	(NA)	(NA)
3412	Metal barrels, drums, and pails	–	10	5	0.5	6.8	0.3	0.7	4.2	11.5	21.3	34.6	0.7	(NA)	(NA)
342	Cutlery, hand tools, and hardware	–	29	18	1.1	13.0	0.9	1.7	8.8	28.6	28.1	56.2	(D)	1.5	28.3
3429	Hardware, n.e.c.	–	15	11	0.7	8.9	0.6	1.1	6.0	18.9	20.9	39.2	(D)	(NA)	(NA)
343	Plumbing and heating, except electric	–	21	11	1.3	19.7	0.9	1.8	11.1	40.7	36.5	76.9	1.7	(NA)	(NA)
3432	Plumbing fittings and brass goods	–	11	6	0.7	7.6	0.5	1.0	5.3	16.3	20.5	36.3	(D)	(NA)	(NA)
344	Fabricated structural metal products	–	107	43	4.7	56.8	3.2	6.3	35.8	121.3	164.8	286.5	4.8	5.0	87.2
3444	Sheet metal work	–	32	14	1.8	17.9	1.1	2.3	11.9	44.2	68.7	113.1	(D)	(NA)	(NA)
345	Screw machine products, bolts, etc.	–	97	56	5.3	78.1	4.1	8.6	53.0	153.2	145.6	307.2	9.9	6.6	138.5
346	Metal forgings and stampings	–	124	68	16.2	311.9	13.3	28.8	244.7	597.7	612.3	1 190.3	36.4	14.6	320.2
3471	Plating and polishing	E1	104	28	1.5	15.9	1.2	2.3	10.8	32.7	13.1	45.8	1.7	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	117	50	5.2	67.8	3.9	7.6	42.3	159.0	159.2	303.6	4.9	4.5	76.5
35	Machinery, except electrical	–	877	260	35.3	546.3	25.1	51.4	353.6	1 148.9	742.2	1 880.9	50.6	36.4	757.6
353	Construction and related machinery	–	48	30	6.1	99.8	4.2	8.7	62.6	267.9	249.2	509.4	6.8	5.9	128.4
3535	Conveyors and conveying equipment	–	7	5	0.6	8.4	0.4	0.9	5.8	27.4	11.7	38.8	(D)	(NA)	(NA)
354	Metalworking machinery	–	312	97	12.7	197.1	9.0	18.7	125.7	393.3	182.6	576.8	14.6	12.2	230.0
3545	Machine tool accessories	–	51	20	3.3	51.0	2.6	5.2	34.0	106.9	34.9	140.7	3.9	(NA)	(NA)
3546	Power driven hand tools	–	8	5	0.6	9.4	0.4	0.8	5.3	24.9	6.8	31.3	1.6	(NA)	(NA)
355	Special industry machinery	–	55	30	4.1	64.5	2.7	5.5	39.6	118.7	97.1	211.4	6.0	(NA)	(NA)
3559	Special industry machinery, n.e.c.	–	38	24	3.3	52.2	2.3	4.6	33.7	93.2	81.4	171.1	5.6	(NA)	(NA)
356	General industrial machinery	–	95	31	3.5	52.1	2.3	4.8	31.6	110.2	70.6	181.8	8.0	4.1	75.4
3569	General industrial machinery, n.e.c.	–	24	5	0.7	10.7	0.5	1.0	6.2	17.9	17.4	35.5	1.2	(NA)	(NA)
359	Miscellaneous machinery, except electrical	–	334	56	6.7	105.3	5.2	10.8	75.9	204.9	108.4	310.4	13.7	5.7	122.9
36	Electric and electronic equipment	–	166	96	20.1	293.5	13.7	26.8	174.7	709.0	625.1	1 317.5	45.0	19.6	398.1
361	Electric distributing equipment	E1	15	7	0.7	7.0	0.5	0.9	4.3	12.0	13.6	24.8	(D)	(NA)	(NA)
362	Electrical industrial apparatus	–	39	25	6.8	131.4	4.3	9.1	79.8	286.8	241.4	522.3	28.8	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Cuyahoga County—Con.														
36	Electric and electronic equipment—Con.														
366	Communication equipment	-	12	7	1.4	12.8	1.0	1.7	7.9	26.5	54.1	75.4	(D)	0.5	8.7
367	Electronic components and accessories	-	24	9	0.7	7.4	0.5	1.0	4.8	29.8	24.5	54.4	0.5	(NA)	(NA)
37	Transportation equipment	-	86	35	25.8	552.7	20.2	46.3	423.6	963.4	1 564.1	2 511.6	(D)	30.3	739.8
38	Instruments and related products	-	82	31	3.7	45.2	2.2	4.3	21.0	102.4	49.3	147.4	2.9	3.2	59.1
39	Miscellaneous manufacturing industries	E1	132	32	2.5	27.5	1.8	3.4	16.6	56.9	46.8	103.6	1.8	2.6	42.3
399	Miscellaneous manufactures	-	75	24	1.8	21.0	1.4	2.6	12.6	43.9	31.3	75.3	1.4	1.8	29.8
3991	Brooms and brushes	-	13	8	0.9	10.6	0.7	1.2	8.2	22.1	18.6	40.2	0.8	(NA)	(NA)
3993	Signs and advertising displays	E1	29	13	0.6	7.7	0.5	1.0	4.8	15.2	8.2	23.4	0.4	(NA)	(NA)
--	Administrative and auxiliary	-	143	83	21.4	455.3	-	-	-	-	-	-	-	(NA)	(NA)
	Darke County	-	78	27	3.7	41.9	3.1	5.9	32.0	118.9	129.6	243.8	8.6	2.9	58.8
	Defiance County	-	54	22	7.8	142.0	8.4	13.1	114.9	330.7	241.4	585.8	(D)	7.3	154.4
20	Food and kindred products	-	7	4	0.6	7.8	0.3	0.6	4.5	13.1	52.2	85.1	1.1	0.6	8.0
	Delaware County	-	83	28	4.4	54.5	3.2	6.2	38.0	160.8	178.0	331.0	4.2	4.3	94.9
35	Machinery, except electrical	-	17	4	0.5	5.7	0.4	0.8	4.6	12.8	8.9	18.8	(D)	0.7	16.4
	Erie County	-	137	58	12.0	193.5	9.1	18.7	140.5	419.7	501.2	918.3	34.9	11.7	254.8
20	Food and kindred products	E1	16	8	0.8	10.5	0.8	1.2	7.0	38.6	107.4	145.6	0.8	0.8	10.1
201	Meat products	-	4	3	0.5	8.0	0.4	0.9	5.7	32.5	94.3	126.5	(D)	(NA)	(NA)
26	Paper and allied products	-	8	6	0.8	11.2	0.7	1.3	8.3	18.8	27.1	45.1	(D)	0.8	15.7
30	Rubber and miscellaneous plastics products	-	9	5	1.1	12.8	0.8	1.7	9.8	25.9	24.5	50.1	(D)	1.2	19.5
33	Primary metal industries	-	6	5	0.9	12.9	0.7	1.5	9.9	28.5	32.6	60.0	4.2	1.2	19.0
35	Machinery, except electrical	-	27	11	3.7	67.0	2.8	5.6	47.9	116.9	58.7	174.0	(D)	3.0	64.2
	Fairfield County	-	101	48	11.7	138.7	8.2	16.3	89.8	288.8	217.9	495.9	20.3	10.9	154.0
20	Food and kindred products	-	13	3	0.5	6.0	0.3	0.7	3.9	23.1	24.6	46.6	(D)	(NA)	(NA)
34	Fabricated metal products	-	14	9	1.9	20.7	1.1	2.3	11.7	57.3	40.4	96.9	1.3	(NA)	(NA)
35	Machinery, except electrical	E1	23	8	0.8	10.4	0.7	1.4	7.7	18.7	12.5	30.5	2.1	2.2	39.0
36	Electric and electronic equipment	-	8	5	1.5	13.6	1.2	2.3	9.3	34.3	29.6	60.6	1.9	1.1	10.0
	Fayette County	-	40	17	2.8	33.9	2.0	4.0	22.8	84.5	112.9	194.8	3.5	2.2	39.4
20	Food and kindred products	-	6	4	0.8	9.9	0.4	0.8	5.0	17.3	43.8	61.3	0.3	0.8	11.4
	Franklin County	-	1 095	396	74.1	1 110.9	47.0	91.5	834.4	2 292.0	2 150.8	4 432.2	124.3	80.3	1 580.6
205	Bakery products	-	18	11	1.5	19.3	1.2	2.4	14.8	47.1	45.8	92.9	1.4	1.7	25.3
25	Furniture and fixtures	-	24	9	1.2	14.9	1.0	1.8	10.2	23.2	22.3	45.2	0.4	(NA)	(NA)
251	Household furniture	E1	9	3	0.5	5.4	0.4	0.8	4.2	6.8	11.4	18.4	(Z)	(NA)	(NA)
28	Paper and allied products	E1	24	11	0.7	8.5	0.5	1.1	5.8	17.3	24.9	42.1	0.6	1.3	20.0
27	Printing and publishing	-	206	46	6.2	80.2	3.3	6.1	43.4	218.8	102.2	320.9	6.1	6.2	122.1
2721	Periodicals	-	17	5	0.5	4.5	(Z)	0.1	0.4	26.9	19.6	46.7	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Franklin County—Con.														
27	Printing and publishing—Con.														
2751	Commercial printing, letterpress	E1	66	7	0.6	6.2	0.4	0.8	4.3	11.1	7.9	19.0	0.7	(NA)	(NA)
2752	Commercial printing, lithographic	–	66	17	1.4	19.0	1.0	1.9	13.2	29.9	21.4	51.5	2.2	(NA)	(NA)
3079	Miscellaneous plastics products	–	38	17	1.9	25.9	1.4	3.0	17.7	65.2	74.5	137.1	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	59	26	4.4	61.0	3.2	6.2	38.0	157.4	76.8	233.6	9.2	5.1	120.4
327	Concrete, gypsum, and plaster products	E1	25	12	0.7	10.2	0.4	0.9	5.1	19.1	21.7	41.0	1.4	(NA)	(NA)
33	Primary metal industries	–	27	12	3.3	45.8	2.7	4.9	37.0	73.8	105.0	180.7	5.7	3.1	43.7
34	Fabricated metal products	–	114	47	9.4	161.5	7.5	15.2	124.9	372.8	266.2	632.8	39.7	8.8	219.2
3441	Fabricated structural metal	–	10	4	0.5	6.1	0.3	0.7	3.9	10.7	10.3	20.7	0.6	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	26	7	0.8	9.9	0.6	1.2	8.3	23.4	19.3	43.0	0.5	(NA)	(NA)
37	Transportation equipment	–	31	10	5.1	86.9	2.7	5.5	42.7	156.6	62.9	245.0	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories	–	11	3	1.1	15.2	0.9	1.6	11.9	32.1	21.0	53.2	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	53	14	1.3	14.8	0.9	1.8	8.7	26.9	18.6	45.2	1.4	(NA)	(NA)
–	Administrative and auxiliary	–	51	29	5.8	119.6	–	–	–	–	–	–	–	(NA)	(NA)
	Fulton County	–	**103**	**47**	**8.9**	**76.1**	**5.6**	**10.8**	**53.6**	**190.7**	**291.0**	**479.2**	**10.3**	**5.7**	**94.7**
20	Food and kindred products	–	13	6	1.0	13.7	0.8	1.6	9.2	54.0	118.7	172.5	1.3	1.0	25.1
25	Furniture and fixtures	–	8	5	1.2	10.8	1.0	1.9	8.0	22.0	16.9	38.6	(D)	0.8	11.1
34	Fabricated metal products	–	14	10	0.9	8.6	0.7	1.3	6.6	23.9	33.3	56.7	(D)	1.1	18.5
346	Metal forgings and stampings	–	6	5	0.5	4.6	0.4	0.7	3.7	9.4	12.7	21.7	0.4	(NA)	(NA)
35	Machinery, except electrical	–	10	6	1.1	12.1	0.9	1.8	8.9	24.1	29.8	53.1	3.0	0.6	8.5
37	Transportation equipment	–	5	3	0.7	6.0	0.6	1.2	4.5	13.2	23.6	36.8	(D)	0.8	8.9
	Gallia County	–	**24**	8	**1.0**	**11.6**	**0.8**	1.6	**6.2**	**32.2**	**38.1**	**87.6**	**2.5**	**0.7**	**13.1**
	Geauga County	–	**151**	**50**	6.5	**76.0**	**4.6**	**8.7**	**43.8**	**147.6**	**160.4**	**304.7**	8.6	**4.7**	**70.0**
30	Rubber and miscellaneous plastics products	–	24	14	3.3	37.0	2.5	4.8	23.7	58.6	76.5	133.2	2.5	2.8	39.0
3069	Fabricated rubber products, n.e.c.	–	8	6	2.1	24.7	1.5	2.9	15.0	37.4	53.8	90.7	1.4	(NA)	(NA)
3079	Miscellaneous plastics products	–	16	8	1.2	12.3	1.0	1.9	8.6	21.2	22.7	42.5	1.1	(NA)	(NA)
35	Machinery, except electrical	–	29	7	0.5	6.0	0.4	0.8	4.2	15.8	10.7	25.2	0.6	(NA)	(NA)
	Greene County	–	**104**	**40**	**4.0**	53.3	**2.9**	**5.7**	**34.7**	**112.2**	**130.2**	**241.8**	**5.6**	**3.4**	**63.0**
	Guernsey County	–	55	**28**	**5.2**	**56.0**	**3.4**	**8.3**	**32.9**	**147.6**	**187.7**	**334.5**	**5.9**	**4.4**	**70.8**
30	Rubber and miscellaneous plastics products	–	15	10	0.8	7.9	0.6	1.2	5.3	12.0	23.0	33.8	0.9	0.6	8.2
3079	Miscellaneous plastics products	–	15	10	0.8	7.9	0.6	1.2	5.3	12.0	23.0	33.8	0.9	(NA)	(NA)
	Hamilton County	–	**1 709**	**703**	139.6	**2 169.0**	**82.8**	**169.0**	**1 120.4**	**5 043.1**	5 376.1	**10 392.7**	**267.6**	**137.4**	**3 117.0**
20	Food and kindred products	–	128	70	13.6	209.3	8.2	17.3	122.2	585.5	1 028.7	1 612.1	22.4	15.4	425.9
2011	Meat packing plants	–	13	6	1.3	24.1	1.0	1.9	15.7	48.7	170.2	219.7	(D)	(NA)	(NA)
2013	Sausages and other prepared meats	–	9	6	0.8	13.8	0.6	1.4	10.6	19.3	78.0	97.4	1.3	(NA)	(NA)
2086	Bottled and canned soft drinks	–	6	4	1.3	17.8	0.4	0.8	4.8	43.2	38.5	81.1	(D)	(NA)	(NA)
22	Textile mill products	–	11	4	0.7	6.8	0.5	0.9	4.3	19.2	14.2	32.9	0.8	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Hamilton County—Con.														
24	Lumber and wood products	-	40	12	1.0	9.2	0.8	1.5	6.1	17.3	17.6	35.0	0.5	(NA)	(NA)
249	Miscellaneous wood products	-	16	5	0.5	4.6	0.4	0.6	3.2	10.3	8.9	19.2	0.3	(NA)	(NA)
251	Household furniture	-	20	6	1.0	10.1	0.6	1.4	6.7	21.5	22.7	44.2	0.4	1.6	24.4
2515	Mattresses and bedsprings	-	7	5	0.5	5.1	0.3	0.7	3.0	12.1	16.0	26.2	(D)	(NA)	(NA)
26	Paper and allied products	E1	68	42	4.9	63.1	3.9	7.9	47.1	126.3	164.2	290.2	9.3	4.6	81.1
264	Miscellaneous converted paper products	E4	25	14	1.0	10.9	0.7	1.3	6.7	23.0	24.0	46.9	1.3	0.9	14.5
265	Paperboard containers and boxes	-	36	23	3.2	39.5	2.6	5.2	30.0	81.2	109.7	166.9	6.4	2.9	51.7
2653	Corrugated and solid fiber boxes	-	13	7	0.9	13.6	0.7	1.4	9.2	27.3	36.0	63.3	1.3	(NA)	(NA)
27	Printing and publishing	-	304	69	12.1	151.3	7.3	13.6	69.7	341.9	202.6	542.1	15.7	13.1	230.1
2752	Commercial printing, lithographic	-	94	25	3.2	42.3	2.5	4.5	30.6	62.3	50.3	132.7	4.0	(NA)	(NA)
279	Printing trade services	-	32	12	0.6	10.4	0.4	0.6	7.4	16.2	4.1	20.0	0.6	(NA)	(NA)
26	Chemicals and allied products	-	96	47	12.6	203.6	7.4	14.6	110.7	1 261.9	697.2	2 150.7	52.4	(NA)	(NA)
2693	Printing ink	-	12	7	0.6	7.6	0.3	0.6	4.4	16.2	25.5	43.4	(D)	(NA)	(NA)
29	Petroleum and coal products	-	16	5	1.4	21.1	1.1	2.4	16.5	55.6	267.5	339.2	2.8	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	57	23	3.4	46.6	2.7	5.5	33.0	96.5	95.5	192.6	(D)	4.0	73.3
32	Stone, clay, and glass products	-	59	16	1.2	14.2	0.8	1.6	7.6	30.9	34.2	64.6	2.1	1.3	24.9
33	Primary metal industries	-	47	26	3.9	53.0	3.1	6.3	36.2	96.0	97.2	190.2	5.1	3.4	61.4
336	Nonferrous foundries	-	17	11	0.9	12.0	0.6	1.5	9.6	26.5	19.5	45.2	1.1	(NA)	(NA)
3398	Metal heat treating	-	10	6	0.5	4.2	0.4	0.6	2.6	8.5	3.8	12.5	1.4	(NA)	(NA)
34	Fabricated metal products	-	196	92	11.6	152.9	6.9	17.6	101.5	321.9	316.6	639.7	16.6	11.8	196.6
344	Fabricated structural metal products	-	55	30	4.0	53.5	3.0	6.0	34.3	109.2	103.7	212.5	6.2	3.9	63.9
347	Metal services, n.e.c.	-	37	11	0.9	9.3	0.7	1.4	6.5	16.5	12.6	29.3	1.6	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	50	21	3.6	49.6	2.9	5.6	32.6	109.0	95.0	206.3	7.2	3.7	70.9
3494	Valves and pipe fittings	-	12	6	2.8	40.4	2.2	4.1	26.7	90.5	78.5	171.6	8.6	(NA)	(NA)
35	Machinery, except electrical	-	284	99	20.4	265.9	12.7	24.6	157.0	534.0	361.0	699.8	23.9	15.3	250.9
354	Metalworking machinery	-	61	30	10.1	157.4	5.4	10.9	79.3	263.1	136.9	409.7	12.2	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures	E1	42	6	0.5	8.0	0.4	0.9	5.7	11.3	4.3	15.7	0.6	(NA)	(NA)
356	General industrial machinery	-	38	17	4.2	49.1	3.1	5.1	29.5	116.6	105.3	223.5	6.4	(NA)	(NA)
3569	General industrial machinery, n.e.c.	-	6	4	0.5	6.6	0.3	0.6	3.1	14.9	10.5	25.9	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	92	16	1.6	19.6	1.2	2.4	13.1	38.4	19.7	57.6	2.4	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E1	92	16	1.6	19.6	1.2	2.4	13.1	38.4	19.7	57.6	2.4	(NA)	(NA)
364	Electric lighting and wiring equipment	-	13	9	1.5	16.5	1.0	1.9	9.0	32.7	31.1	62.5	1.1	(NA)	(NA)
3993	Signs and advertising displays	E2	24	6	0.5	5.6	0.3	0.7	3.3	11.0	6.4	17.4	0.4	(NA)	(NA)
--	Administrative and auxiliary	-	83	45	13.2	254.6	-	-	-	-	-	-	-	(NA)	(NA)
	Hancock County	-	92	42	8.9	129.3	5.7	11.1	67.2	300.5	441.4	739.4	19.4	7.8	164.2
20	Food and kindred products	-	16	8	0.8	8.5	0.5	1.0	5.0	17.1	92.6	111.3	1.1	0.7	17.5
30	Rubber and miscellaneous plastics products	-	12	9	2.6	35.1	1.7	3.4	21.5	55.9	136.5	188.9	6.5	2.5	62.4
	Hardin County	-	51	21	3.2	40.6	2.5	4.6	29.7	119.5	139.2	262.2	5.5	3.1	63.2

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Harrison County	-	23	8	1.0	7.7	0.9	1.5	6.4	12.4	8.8	20.9	0.7	1.1	10.0
	Henry County	-	55	19	3.9	48.5	3.2	8.4	35.8	208.7	274.1	482.2	8.0	3.8	120.5
	Highland County	-	37	20	3.2	29.9	2.8	5.4	24.8	84.3	87.2	129.9	3.3	2.8	42.4
34	Fabricated metal products	-	6	3	0.5	4.3	0.4	0.7	3.6	8.3	6.6	14.8	0.3	(NA)	(NA)
	Hocking County	-	34	12	2.3	28.7	2.0	4.0	20.8	81.8	48.1	110.3	2.5	2.5	42.8
32	Stone, clay, and glass products	-	5	4	0.8	11.3	0.7	1.5	9.3	28.3	15.1	43.3	0.9	0.8	19.0
	Holmes County	-	74	31	2.8	28.8	2.3	4.5	20.7	89.3	87.4	155.5	8.2	2.1	40.1
24	Lumber and wood products	E1	28	11	0.7	8.6	0.6	1.2	5.0	16.7	26.1	42.7	1.8	0.8	11.2
30	Rubber and miscellaneous plastics products	-	6	4	0.8	8.4	0.7	1.4	7.1	25.4	14.6	40.2	(D)	0.5	10.8
	Huron County	-	102	50	8.4	97.3	8.8	13.5	89.9	234.2	318.8	548.3	10.2	7.9	188.2
20	Food and kindred products	-	7	5	0.8	7.7	0.6	1.2	5.8	57.3	107.9	160.8	(D)	0.7	7.5
30	Rubber and miscellaneous plastics products	-	8	7	0.8	8.5	0.6	1.2	6.0	15.7	19.7	37.3	1.1	1.0	17.5
3069	Fabricated rubber products, n.e.c.	-	4	3	0.5	5.0	0.4	0.7	3.5	6.4	4.3	12.0	(D)	(NA)	(NA)
35	Machinery, except electrical	-	17	5	1.1	13.4	1.0	2.2	10.7	27.0	69.4	93.8	1.0	(NA)	(NA)
37	Transportation equipment	-	7	4	1.2	16.1	1.0	2.1	13.0	25.8	42.8	70.7	(D)	1.0	11.7
38	Instruments and related products	-	5	3	0.5	3.2	0.4	0.8	2.3	5.4	3.5	8.9	0.1	(NA)	(NA)
	Jackson County	-	54	18	2.7	25.7	2.2	4.2	18.7	60.8	108.5	170.3	4.4	1.8	34.3
	Jefferson County	-	68	28	7.9	147.4	8.2	11.9	113.8	400.8	857.4	1 058.9	21.2	9.3	263.7
	Knox County	-	42	17	3.0	40.4	2.0	4.2	24.3	103.0	107.9	203.8	4.2	4.1	74.2
	Lake County	-	486	171	25.0	361.8	18.0	31.8	197.1	735.0	850.9	1 379.9	57.2	23.8	418.1
27	Printing and publishing	E2	30	4	0.5	5.3	0.3	0.5	2.3	10.3	6.0	16.3	0.4	0.6	6.4
28	Chemicals and allied products	-	22	11	2.0	32.0	1.4	2.8	20.5	109.6	163.8	272.8	27.2	(NA)	(NA)
282	Plastics materials and synthetics	-	3	3	0.9	13.6	0.7	1.5	9.6	45.9	60.9	108.0	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	23	13	1.6	18.2	1.2	2.5	12.7	33.1	33.9	66.8	1.6	1.4	24.4
32	Stone, clay, and glass products	E2	20	4	0.5	8.3	0.4	0.7	4.1	15.0	12.9	27.6	0.6	0.5	15.3
33	Primary metal industries	E1	15	9	0.7	9.3	0.5	1.0	5.9	23.2	22.3	45.2	0.9	(NA)	(NA)
34	Fabricated metal products	-	80	40	4.2	54.8	3.2	6.5	37.6	133.4	111.9	238.4	7.2	3.1	68.1
344	Fabricated structural metal products	-	13	9	0.6	8.1	0.5	1.0	5.7	23.8	25.3	48.1	0.8	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	15	5	1.0	14.4	0.7	1.4	8.7	39.4	38.8	75.0	2.8	(NA)	(NA)
35	Machinery, except electrical	-	197	48	7.3	118.3	5.0	9.7	71.5	204.5	175.3	381.2	8.3	4.9	83.9
354	Metalworking machinery	E1	47	11	1.2	18.3	0.9	1.8	12.2	33.6	13.2	47.0	1.3	1.0	17.5
359	Miscellaneous machinery, except electrical	E1	108	18	1.0	12.9	0.8	1.5	8.9	22.6	15.8	38.2	1.3	(NA)	(NA)
36	Electric and electronic equipment	E1	21	8	0.8	9.8	0.5	1.0	5.2	23.1	12.0	32.7	1.5	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	14	6	0.9	8.9	0.8	1.4	6.3	18.6	9.3	25.7	0.2	0.6	9.0

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Lake County—Con.														
–	Administrative and auxiliary --	–	11	10	1.3	26.1	–	–	–	–	–	–	–	(NA)	(NA)
	Licking County ----------	–	**133**	**46**	**10.8**	**152.2**	**8.1**	**15.4**	**107.6**	**375.0**	**346.0**	**712.2**	**28.9**	**10.1**	**212.4**
26	Paper and allied products ---	–	4	4	0.5	5.4	0.4	0.8	3.9	13.3	19.8	33.3	0.7	0.5	6.4
30	Rubber and miscellaneous plastics products ---------	–	13	7	0.9	9.0	0.8	1.5	6.7	28.7	23.0	51.2	2.6	0.5	13.5
34	Fabricated metal products ---	–	11	6	0.6	6.8	0.5	0.8	4.3	12.2	12.9	25.8	1.4	(NA)	(NA)
	Logan County ----------	–	**54**	**20**	**3.8**	**45.0**	**3.1**	**8.0**	**33.5**	**88.9**	**76.8**	**162.3**	**8.0**	**3.0**	**52.4**
	Lorain County (Coextensive with Lorain-Elyria, Ohio, SMSA; see table 6.)														
	Lucas County ----------	–	**767**	**272**	**59.9**	**1 007.2**	**39.5**	**78.5**	**599.2**	**2 225.9**	**3 780.4**	**5 971.8**	**133.0**	**60.2**	**1 220.5**
20	Food and kindred products --	–	32	12	2.1	31.0	1.4	3.0	20.8	136.5	242.7	378.2	6.6	2.6	86.5
205	Bakery products ---------	–	5	4	0.5	6.2	0.3	0.5	3.7	15.5	13.4	28.9	0.7	0.7	13.1
24	Lumber and wood products --	–	23	5	0.5	7.0	0.3	0.6	3.5	14.8	18.6	32.8	0.3	0.6	11.8
26	Paper and allied products ---	E1	17	11	1.0	10.8	0.7	1.4	7.4	26.6	37.7	64.0	1.7	0.9	13.5
27	Printing and publishing ------	–	109	15	2.0	31.3	1.2	2.2	17.5	89.4	22.2	111.3	3.5	2.1	37.4
28	Chemicals and allied products ----------	–	28	12	1.5	27.0	1.1	2.1	16.5	112.3	166.6	272.4	2.6	1.6	72.9
2911	Petroleum refining ------	–	3	3	1.3	30.5	0.9	1.9	19.6	310.4	1 505.5	1 801.8	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products ---------	E1	30	12	0.7	7.9	0.6	1.1	5.4	17.5	12.1	29.6	0.6	0.7	12.6
3079	Miscellaneous plastics products----------	E2	27	9	0.5	5.1	0.4	0.8	3.6	11.1	9.4	20.5	(D)	(NA)	(NA)
32	Stone, clay, and glass products ----------	–	42	14	5.4	88.9	4.5	8.8	72.7	185.8	128.2	309.7	21.1	5.2	146.8
33	Primary metal industries -----	–	31	22	4.8	72.8	4.0	7.8	58.0	129.3	275.1	404.9	11.2	4.9	91.8
331	Blast furnace and basic steel products ----------	–	7	7	1.3	21.8	1.0	2.2	17.7	26.0	92.1	122.0	(D)	1.2	26.9
34	Fabricated metal products ---	–	112	51	6.6	103.9	5.4	10.2	76.9	219.9	297.0	516.9	15.9	5.1	85.6
344	Fabricated structural metal products ----------	–	25	9	1.1	18.1	0.8	1.5	12.3	41.9	98.5	138.7	2.6	1.0	16.1
346	Metal forgings and stampings ----------	–	31	24	4.0	65.4	3.3	6.4	49.5	136.1	149.0	287.0	11.3	2.9	49.8
3465	Automotive stampings ---	–	14	13	2.6	47.0	2.2	4.4	36.0	103.9	115.8	220.6	10.2	(NA)	(NA)
349	Miscellaneous fabricated metal products ---------	–	17	9	0.7	9.2	0.5	1.0	6.5	15.3	23.6	38.8	0.8	(NA)	(NA)
35	Machinery, except electrical --	–	162	40	5.2	84.8	3.3	6.7	49.4	187.4	92.6	283.7	5.4	7.2	118.7
356	General industrial machinery ----------	–	27	8	2.3	38.0	1.2	2.4	18.8	66.5	45.6	112.3	2.4	2.4	43.8
37	Transportation equipment ---	–	28	16	13.8	244.7	11.7	22.0	196.6	532.0	773.4	1 302.8	25.0	12.7	255.5
371	Motor vehicles and equipment ----------	–	20	12	12.8	226.1	11.0	20.7	185.2	497.3	756.2	1 249.3	(D)	11.3	230.3
39	Miscellaneous manufacturing industries ----------	–	25	6	0.8	7.1	0.7	1.3	4.6	23.6	14.9	37.2	0.4	1.1	13.5
–	Administrative and auxiliary --	–	37	26	8.2	169.9	–	–	–	–	–	–	–	(NA)	(NA)
	Madison County ----------	–	**28**	**15**	**1.5**	**14.7**	**1.2**	**2.2**	**10.8**	**41.5**	**39.4**	**80.9**	**0.8**	**2.3**	**40.3**
	Mahoning County ----------	–	**357**	**138**	**33.2**	**521.2**	**25.8**	**47.4**	**376.2**	**883.7**	**1 461.1**	**2 358.0**	**39.0**	**38.2**	**895.8**
20	Food and kindred products --	E1	25	11	1.0	13.9	0.5	1.1	5.8	34.0	49.8	83.9	2.9	1.1	18.2

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Mahoning County—Con.														
23	Apparel and other textile products	-	10	5	0.7	4.4	0.7	1.0	2.4	9.6	8.8	18.5	(D)	(NA)	(NA)
33	Primary metal industries	-	21	16	14.7	264.8	12.3	22.4	215.1	385.6	998.3	1 401.2	21.5	18.6	385.7
331	Blast furnace and basic steel products	-	7	7	13.8	253.8	11.6	21.0	207.1	358.9	974.2	1 354.1	(D)	(NA)	(NA)
34	Fabricated metal products	-	61	29	2.6	34.6	2.0	3.7	22.8	64.8	95.6	157.8	(D)	2.4	45.7
344	Fabricated structural metal products	E1	28	13	0.8	7.6	0.6	1.0	4.9	14.0	21.7	35.4	0.3	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	13	5	0.7	10.3	0.8	1.1	7.4	19.3	38.8	55.5	1.1	(NA)	(NA)
354	Metalworking machinery	-	35	12	1.7	26.7	1.5	2.7	22.5	88.0	71.2	151.6	1.1	(NA)	(NA)
--	Administrative and auxiliary	-	7	4	1.2	24.7	-	-	-	-	-	-	-	(NA)	(NA)
	Marion County	-	**100**	**44**	**12.1**	**173.0**	**9.4**	**18.9**	**124.7**	**448.8**	**834.9**	**1 096.8**	**21.7**	**10.2**	**244.0**
20	Food and kindred products	-	12	5	0.8	10.6	0.6	1.3	6.8	35.4	136.7	173.0	8.5	0.9	25.8
33	Primary metal industries	-	10	5	0.6	9.9	0.5	1.0	7.2	7.1	26.3	33.9	(D)	0.8	12.4
34	Fabricated metal products	-	10	7	1.0	13.7	0.8	1.6	10.6	35.1	47.8	85.0	(D)	(NA)	(NA)
35	Machinery, except electrical	-	26	7	5.6	84.9	4.5	7.5	85.3	179.4	225.3	412.8	4.4	4.1	78.1
	Medina County	-	**195**	**77**	**7.8**	**87.4**	**5.8**	**11.3**	**54.2**	**193.4**	**231.8**	**420.4**	**13.5**	**8.8**	**107.3**
27	Printing and publishing	E1	20	5	0.5	5.8	0.4	0.7	3.9	11.4	9.0	20.3	1.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	12	7	0.9	8.1	0.7	1.3	5.8	13.6	12.7	26.4	0.7	0.9	8.5
32	Stone, clay, and glass products	-	15	6	0.6	8.3	0.5	0.9	5.4	19.5	19.3	38.3	3.6	(NA)	(NA)
34	Fabricated metal products	-	32	12	1.7	18.0	1.4	2.8	13.1	32.7	49.6	77.6	2.8	1.2	18.7
346	Metal forgings and stampings	-	4	3	0.6	5.9	0.6	1.4	4.7	8.9	16.8	23.6	1.2	(NA)	(NA)
35	Machinery, except electrical	-	37	11	0.9	9.3	0.7	1.5	8.1	28.2	17.2	43.9	1.7	(NA)	(NA)
36	Electric and electronic equipment	-	7	4	0.5	6.6	0.3	0.4	2.0	16.8	19.4	35.2	0.9	(NA)	(NA)
	Mercer County	-	**63**	**20**	**5.3**	**60.7**	**4.3**	**8.2**	**47.1**	**120.0**	**193.5**	**310.4**	**4.8**	**4.9**	**89.3**
	Miami County	-	**177**	**80**	**15.0**	**189.1**	**10.0**	**20.8**	**114.9**	**388.9**	**474.1**	**847.3**	**18.9**	**12.4**	**217.3**
20	Food and kindred products	-	8	3	0.8	11.7	0.6	1.2	8.6	16.6	109.6	126.9	(D)	(NA)	(NA)
35	Machinery, except electrical	-	46	17	4.1	54.3	2.8	5.7	34.7	120.0	81.7	193.4	4.7	2.8	67.7
355	Special industry machinery	-	5	5	2.1	28.6	1.2	2.5	15.8	56.2	36.9	88.5	2.4	(NA)	(NA)
	Montgomery County	-	**982**	**370**	**85.5**	**1 484.3**	**58.5**	**121.2**	**958.5**	**2 898.9**	**2 309.8**	**4 947.3**	**239.0**	**101.2**	**1 840.7**
20	Food and kindred products	E1	47	19	2.3	28.2	1.4	2.6	14.8	97.0	238.3	335.3	(D)	2.4	49.1
208	Beverages	E4	8	4	0.5	6.4	0.2	0.4	2.2	22.0	24.3	45.7	0.7	(NA)	(NA)
26	Paper and allied products	-	26	16	3.8	55.0	2.2	4.5	29.2	104.8	123.5	230.0	10.8	4.0	67.6
2621	Paper mills, except building paper	-	3	3	0.8	12.4	0.6	1.4	10.3	21.3	50.1	71.5	(D)	(NA)	(NA)
275	Commercial printing	-	72	16	4.6	89.7	3.8	7.3	58.0	94.5	92.3	187.3	(D)	(NA)	(NA)
28	Chemicals and allied products	-	37	14	1.8	25.0	1.1	2.2	13.6	52.6	55.2	105.8	4.8	1.6	33.2
33	Primary metal industries	-	30	21	2.1	29.0	1.8	3.6	22.3	59.6	48.3	108.0	2.8	2.5	34.5

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Montgomery County—Con.														
33	Primary metal industries—Con.														
3361	Aluminum foundries	-	9	6	0.5	6.2	0.4	0.8	4.9	10.6	9.3	19.9	(D)	(NA)	(NA)
35	Machinery, except electrical	-	299	107	21.2	390.2	16.1	35.3	288.5	800.0	500.0	1 283.4	69.5	35.5	844.4
354	Metalworking machinery	-	158	54	4.9	87.9	3.8	8.5	63.6	159.2	54.7	207.8	7.2	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures	-	119	44	3.4	63.3	2.8	6.6	49.0	100.8	35.5	132.9	5.1	(NA)	(NA)
355	Special industry machinery	-	18	11	1.4	20.7	0.9	1.8	11.9	43.6	23.0	65.2	2.3	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	67	22	1.1	15.4	0.9	2.4	11.0	28.4	11.7	38.9	(D)	1.0	18.0
3599	Machinery, except electrical, n.e.c.	E1	67	22	1.1	15.4	0.9	2.4	11.0	28.4	11.7	38.9	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	44	18	9.8	140.8	7.2	14.2	92.8	261.9	285.0	539.5	23.9	2.7	47.5
372	Aircraft and parts	-	6	4	0.7	9.9	0.5	0.9	5.6	20.2	10.1	29.6	(D)	(NA)	(NA)
–	Administrative and auxiliary	-	35	24	5.9	121.7	-	-	-	-	-	-	-	(NA)	(NA)
	Morrow County	-	23	7	1.5	17.8	1.1	2.3	12.1	38.0	33.5	71.1	1.0	1.5	26.0
	Muskingum County	-	98	41	8.1	91.6	8.6	12.7	68.9	219.7	277.0	495.8	15.2	9.2	149.0
20	Food and kindred products	-	12	10	0.6	5.8	0.4	0.7	3.4	14.4	61.4	75.5	1.9	(NA)	(NA)
32	Stone, clay, and glass products	-	16	9	1.8	21.8	1.6	2.9	18.4	49.6	31.8	82.4	(D)	2.2	35.8
33	Primary metal industries	-	4	3	1.5	24.1	1.2	2.4	19.2	67.3	89.1	157.1	5.0	1.5	46.0
35	Machinery, except electrical	E1	19	5	0.6	7.5	0.4	0.7	4.3	13.0	10.8	23.7	0.6	(NA)	(NA)
36	Electric and electronic equipment	-	5	4	2.1	19.0	1.7	3.5	14.7	45.5	55.2	99.1	(D)	2.2	20.8
	Ottawa County	-	75	21	3.0	40.2	2.4	4.8	29.8	75.0	118.8	193.7	5.6	3.2	54.0
	Paulding County	-	31	10	1.3	18.8	1.1	2.2	13.1	25.2	39.5	65.8	1.9	1.3	18.7
	Perry County	-	42	18	1.9	19.2	1.7	3.3	14.5	35.9	29.2	63.9	2.8	1.5	17.7
32	Stone, clay, and glass products	-	15	10	1.1	10.6	1.0	2.0	8.2	18.9	10.3	28.7	1.2	0.8	8.4
326	Pottery and related products	-	5	4	0.7	5.7	0.6	1.3	4.8	9.3	3.9	12.8	0.2	(NA)	(NA)
	Pickaway County	-	28	15	4.8	85.8	3.4	8.7	44.0	188.8	248.7	432.2	15.6	4.6	119.5
	Portage County	-	194	83	8.0	102.7	5.8	11.7	84.3	228.7	204.7	431.5	12.7	9.2	183.8
30	Rubber and miscellaneous plastics products	-	44	30	2.8	31.2	2.1	4.1	19.2	63.0	71.8	134.3	3.1	(NA)	(NA)
34	Fabricated metal products	-	15	7	0.7	10.5	0.6	1.2	8.1	27.2	16.0	42.3	0.6	(NA)	(NA)
35	Machinery, except electrical	-	67	17	1.5	21.8	1.1	2.3	14.9	41.9	30.7	71.1	5.0	(NA)	(NA)
	Preble County	-	59	18	2.0	21.5	1.5	2.9	14.3	82.9	61.6	123.7	3.3	1.7	32.0
	Putnam County	-	47	12	2.8	34.8	2.4	4.9	29.0	68.0	104.9	174.7	4.0	(D)	(D)
	Richland County (Coextensive with Mansfield, Ohio, SMSA; see table 6.)														
	Ross County	-	81	19	5.7	82.5	4.0	8.5	55.1	238.8	298.7	535.2	(D)	4.3	101.1
	Sandusky County	-	114	53	9.2	124.1	7.5	15.2	94.8	408.7	508.3	912.5	23.2	8.3	231.3
30	Rubber and miscellaneous plastics products	-	9	6	0.6	8.4	0.5	1.0	4.7	18.9	20.6	38.9	1.0	0.6	11.3
	Scioto County	-	89	17	2.9	44.9	2.1	4.1	31.3	106.4	198.7	316.8	10.2	5.2	98.0
	Seneca County	-	81	38	10.1	145.1	7.8	15.6	105.3	332.2	308.9	830.6	25.3	9.8	198.3

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Seneca County—Con.													
32	Stone, clay, and glass products	-	13	6	1.5	19.8	1.0	1.8	12.4	45.8	37.4	83.9	3.9	1.7	41.4
33	Primary metal industries	-	9	5	1.8	29.4	1.4	2.9	22.6	41.9	55.4	98.7	(D)	1.6	24.0
35	Machinery, except electrical	-	16	7	3.3	51.9	2.5	5.2	36.7	144.4	119.1	254.5	13.3	2.5	57.5
	Shelby County	-	89	42	8.9	86.8	8.9	13.6	83.3	195.4	290.2	488.2	11.5	8.0	132.7
33	Primary metal industries	-	7	6	0.9	11.2	0.7	1.4	8.0	21.4	14.4	35.6	0.8	0.9	14.0
35	Machinery, except electrical	-	29	14	4.7	39.2	3.5	6.6	28.5	101.3	143.3	248.7	8.6	4.1	71.4
	Stark County	-	567	217	55.8	840.3	40.8	78.8	590.4	1 856.7	2 360.1	4 177.0	119.4	56.4	1 131.4
20	Food and kindred products	-	50	20	5.0	56.6	2.9	5.7	35.2	150.1	343.0	492.6	9.1	4.9	85.0
202	Dairy products	-	11	5	0.7	8.0	0.3	0.5	2.6	27.2	59.9	86.8	(D)	0.7	12.0
26	Paper and allied products	-	18	10	0.8	10.3	0.7	1.8	8.0	22.9	33.5	58.4	(D)	(NA)	(NA)
265	Paperboard containers and boxes	-	11	6	0.6	7.6	0.5	1.1	5.6	18.2	24.9	41.0	1.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	28	15	3.4	41.4	2.7	5.3	29.1	83.4	78.7	160.3	5.6	3.6	54.8
33	Primary metal industries	-	28	18	14.3	267.5	11.6	23.1	208.4	674.1	714.0	1 356.5	(D)	14.0	347.7
331	Blast furnace and basic steel products	-	10	7	11.2	221.7	9.1	18.1	174.2	588.9	665.4	1 223.8	(D)	10.7	288.4
342	Cutlery, hand tools, and hardware	-	6	5	0.5	5.5	0.4	0.7	3.9	12.2	11.0	23.0	(D)	0.5	7.4
345	Screw machine products, bolts, etc.	-	6	3	0.5	6.0	0.4	0.7	4.7	13.3	10.8	23.9	0.4	(NA)	(NA)
35	Machinery, except electrical	-	100	24	8.2	135.2	6.5	12.1	99.1	231.1	248.8	469.5	(D)	(NA)	(NA)
37	Transportation equipment	E1	14	1	0.5	8.4	0.4	0.8	6.0	15.8	12.7	29.4	0.2	(NA)	(NA)
382	Measuring and controlling devices	-	6	4	0.5	5.1	0.4	0.7	3.2	8.2	5.2	13.4	0.3	(NA)	(NA)
--	Administrative and auxiliary	-	15	9	2.7	31.2	-	-	-	-	-	-	-	(NA)	(NA)
	Summit County	-	867	323	75.8	1 202.6	44.3	87.7	835.1	1 785.5	2 001.1	3 726.7	144.1	65.3	1 502.4
208	Beverages	E2	6	5	0.7	9.5	0.2	0.4	2.4	28.6	39.4	67.1	(D)	(NA)	(NA)
27	Printing and publishing	E1	105	25	2.3	32.3	1.5	3.0	20.4	62.0	26.3	88.1	(D)	(NA)	(NA)
282	Plastics materials and synthetics	-	3	3	0.7	12.3	0.4	0.9	8.7	22.8	88.7	112.0	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	82	47	24.9	429.3	15.6	31.1	247.0	575.3	756.8	1 285.6	55.2	29.5	686.6
3069	Fabricated rubber products, n.e.c.	-	32	15	1.3	15.2	0.9	1.8	9.5	27.9	33.4	60.8	1.5	(NA)	(NA)
34	Fabricated metal products	-	124	49	12.8	188.0	10.0	19.3	141.0	398.9	437.6	849.2	19.5	12.8	245.3
3423	Hand and edge tools, n.e.c.	-	10	5	0.6	8.1	0.5	0.9	5.3	18.5	13.0	31.4	(D)	(NA)	(NA)
344	Fabricated structural metal products	-	38	14	5.2	68.2	3.7	6.8	48.6	187.5	251.7	454.4	5.9	(NA)	(NA)
35	Machinery, except electrical	-	249	79	10.0	160.9	6.9	14.5	101.0	233.3	226.9	451.6	23.6	9.0	151.7
355	Special industry machinery	-	29	20	2.7	39.4	1.8	3.5	22.7	70.2	51.1	118.9	2.6	3.4	56.2
--	Administrative and auxiliary	-	23	12	9.6	166.0	-	-	-	-	-	-	-	(NA)	(NA)
	Trumbull County	-	283	122	46.3	847.1	37.2	73.1	850.5	1 736.5	2 534.9	4 254.1	92.0	50.4	1 053.7
33	Primary metal industries	-	22	16	11.7	224.7	9.1	16.9	168.8	414.0	740.5	1 164.7	24.8	13.3	272.5
331	Blast furnace and basic steel products	-	8	8	9.9	194.6	7.8	14.4	148.7	348.5	579.2	944.5	(D)	11.1	231.8
34	Fabricated metal products	-	66	44	6.8	120.7	5.3	10.8	90.1	261.0	259.0	510.3	(D)	7.2	144.2

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Trumbull County—Con.														
34	Fabricated metal products—Con.														
344	Fabricated structural metal products	-	27	18	1.6	24.7	1.2	2.3	16.9	56.2	64.1	119.1	2.3	2.0	36.7
349	Miscellaneous fabricated metal products	-	15	10	1.3	20.0	0.9	1.8	13.2	51.6	48.2	94.6	2.5	(NA)	(NA)
354	Metalworking machinery	-	16	6	0.8	13.0	0.7	1.3	10.0	18.6	8.7	26.6	0.7	0.9	14.9
	Tuscarawas County	-	**189**	**80**	**8.8**	**115.7**	**8.8**	**12.9**	**79.8**	**285.4**	**361.3**	**625.5**	**16.7**	**9.4**	**175.5**
24	Lumber and wood products	-	23	5	0.8	10.1	0.5	1.0	5.1	22.1	25.4	47.8	0.6	0.6	16.4
30	Rubber and miscellaneous plastics products	-	14	10	1.0	11.0	0.8	1.7	7.8	26.0	25.9	51.7	2.2	0.6	11.0
32	Stone, clay, and glass products	-	31	21	1.7	18.9	1.5	2.8	15.5	38.6	24.3	83.8	1.4	2.2	28.7
325	Structural clay products	-	20	18	1.3	14.8	1.1	2.2	12.4	29.6	17.6	48.3	0.9	1.9	24.3
3251	Brick and structural clay tile	-	12	12	0.8	7.7	0.7	1.3	6.5	15.0	10.0	26.1	0.4	(NA)	(NA)
33	Primary metal industries	-	6	5	0.9	14.0	0.7	1.5	10.7	29.4	32.6	61.6	1.5	1.3	19.1
35	Machinery, except electrical	-	30	8	1.4	19.2	0.9	1.6	11.8	45.5	33.9	78.8	2.1	1.6	37.7
	Union County	-	**39**	**21**	**4.0**	**54.4**	**2.5**	**4.7**	**28.8**	**262.1**	**209.5**	**483.1**	**5.7**	**2.0**	**93.9**
	Van Wert County	-	**50**	**22**	**4.4**	**80.6**	**3.3**	**6.6**	**40.5**	**152.9**	**235.8**	**385.1**	**6.5**	**4.0**	**87.4**
34	Fabricated metal products	-	11	6	1.7	25.1	1.0	2.1	13.1	62.0	85.8	146.2	2.0	1.3	35.6
	Vinton County	-	**21**	**5**	**0.7**	**8.4**	**0.8**	**1.1**	**5.0**	**15.6**	**15.0**	**30.5**	**1.0**	**0.7**	**5.7**
	Warren County	-	**97**	**40**	**3.8**	**44.8**	**2.7**	**5.3**	**27.0**	**90.3**	**123.4**	**213.1**	**8.7**	**3.4**	**50.1**
26	Paper and allied products	-	12	7	0.6	7.8	0.4	0.9	5.6	15.3	25.6	41.2	1.0	0.5	9.1
34	Fabricated metal products	-	7	6	0.5	5.4	0.4	0.8	4.0	12.5	16.5	29.2	(D)	(NA)	(NA)
	Washington County	-	**83**	**28**	**6.2**	**84.3**	**4.3**	**8.2**	**52.9**	**228.0**	**375.0**	**587.5**	**43.4**	**5.9**	**139.1**
34	Fabricated metal products	-	8	6	0.9	12.0	0.5	0.9	7.0	25.9	48.7	74.2	0.7	0.8	13.9
	Wayne County	-	**180**	**84**	**13.4**	**174.8**	**9.9**	**19.7**	**117.2**	**397.5**	**548.2**	**942.2**	**43.4**	**12.2**	**222.2**
20	Food and kindred products	-	25	11	1.2	15.0	0.8	1.7	10.5	56.4	185.9	243.0	(D)	1.1	23.0
24	Lumber and wood products	E1	24	7	0.5	4.8	0.4	0.8	3.4	8.3	18.0	26.4	0.8	0.5	7.0
265	Paperboard containers and boxes	-	4	4	0.9	13.9	0.8	1.6	10.5	23.0	51.4	73.5	2.4	(NA)	(NA)
33	Primary metal industries	-	8	8	0.9	14.0	0.8	1.7	11.8	40.6	67.5	107.8	1.7	0.9	17.2
34	Fabricated metal products	-	15	8	1.6	18.3	1.3	2.3	12.9	39.4	35.3	74.0	1.8	2.0	33.3
349	Miscellaneous fabricated metal products	-	6	3	0.5	7.2	0.4	0.7	4.6	18.1	12.4	30.1	1.3	0.5	11.5
35	Machinery, except electrical	-	28	10	1.4	18.9	1.0	2.0	12.3	39.0	32.0	69.0	6.9	0.8	13.5
37	Transportation equipment	-	8	6	1.4	17.3	1.0	2.1	12.3	26.0	25.8	53.1	0.2	1.0	13.7
3713	Truck and bus bodies	-	5	3	0.8	10.5	0.6	1.3	7.6	13.9	16.7	31.9	0.1	(NA)	(NA)
	Williams County	-	**98**	**50**	**7.9**	**99.2**	**5.9**	**11.3**	**64.8**	**228.7**	**268.5**	**496.5**	**15.0**	**7.2**	**148.0**
20	Food and kindred products	-	8	4	0.5	4.9	0.3	0.5	2.6	15.8	25.4	41.0	0.7	0.5	12.4
25	Furniture and fixtures	-	6	5	0.6	5.0	0.5	0.9	4.0	10.1	12.7	22.8	(D)	(NA)	(NA)
35	Machinery, except electrical	-	20	8	2.9	39.7	2.0	4.1	25.0	78.7	59.3	136.9	4.5	2.4	45.0
36	Electric and electronic equipment	-	4	4	0.5	3.7	0.4	0.8	3.2	6.9	5.8	12.9	0.5	0.7	8.4

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Williams County—Con.														
37	Transportation equipment	E2	6	6	1.2	18.8	1.0	2.0	13.9	45.1	47.8	92.5	(D)	0.7	20.5
	Wood County	-	182	82	13.5	211.7	11.0	21.8	184.9	379.8	481.0	838.2	31.7	13.7	320.4
20	Food and kindred products	-	19	8	0.9	8.7	0.8	1.4	6.2	36.4	82.9	119.1	1.4	1.2	34.7
30	Rubber and miscellaneous plastics products	-	12	10	1.6	15.7	1.2	2.5	11.1	35.0	36.5	71.7	(D)	1.3	19.1
3079	Miscellaneous plastics products	-	7	5	1.1	10.8	0.9	1.8	7.9	28.6	29.2	56.2	(D)	(NA)	(NA)
34	Fabricated metal products	-	21	9	0.9	12.8	0.7	1.5	9.6	25.8	45.2	70.0	1.8	0.5	8.9
35	Machinery, except electrical	-	36	9	0.9	13.6	0.8	1.2	7.5	27.1	25.6	52.6	1.0	1.4	27.0
	Wyandot County	-	51	21	3.4	32.1	2.9	5.4	25.3	72.8	85.0	157.0	8.1	2.3	39.5
30	Rubber and miscellaneous plastics products	-	8	7	1.5	13.3	1.4	2.6	10.8	26.4	31.1	57.8	(D)	0.8	10.0

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 69 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Akron	-	378	139	44.4	738.5	22.6	44.9	339.1	908.4	1 029.0	1 883.4	73.2	50.6	935.8
20	Food and kindred products	E2	27	10	1.3	16.9	0.6	1.1	6.3	46.1	43.0	88.7	3.6	1.4	24.4
27	Printing and publishing	E1	59	20	1.8	26.4	1.2	2.4	17.1	52.3	21.8	74.0	2.2	1.7	34.3
275	Commercial printing	E2	36	10	0.6	7.6	0.5	0.9	5.3	13.9	7.4	21.2	1.1	(NA)	(NA)
28	Chemicals and allied products	-	15	8	1.3	22.0	0.8	1.6	12.9	52.9	98.4	151.3	5.5	1.3	37.0
30	Rubber and miscellaneous plastics products	-	28	13	21.1	380.4	12.6	25.2	212.0	474.0	624.8	1 061.7	48.4	25.7	622.9
3079	Miscellaneous plastics products	E1	12	5	0.5	6.2	0.4	0.9	4.4	11.0	9.3	20.3	0.3	(NA)	(NA)
33	Primary metal industries	-	12	4	0.7	9.7	0.6	1.1	7.4	22.2	25.6	47.6	1.5	0.7	13.9
34	Fabricated metal products	-	61	23	1.9	24.7	1.5	3.0	15.6	46.4	47.8	93.8	3.2	2.2	39.8
346	Metal forgings and stampings	-	9	7	0.6	7.8	0.5	1.0	5.2	16.2	17.3	33.5	1.8	(NA)	(NA)
3465	Automotive stampings	-	3	3	0.5	6.0	0.4	0.8	3.9	12.6	13.7	26.3	(D)	(NA)	(NA)
35	Machinery, except electrical	-	95	27	3.3	48.0	2.4	4.9	31.1	79.6	50.1	127.6	4.1	3.8	61.6
354	Metalworking machinery	-	28	11	1.0	15.3	0.8	1.7	11.0	23.8	7.9	32.1	1.1	(NA)	(NA)
355	Special industry machinery	-	13	7	1.5	22.5	1.0	2.1	13.6	38.7	28.4	65.4	1.7	(NA)	(NA)
	Alliance	-	84	29	5.5	82.9	3.9	7.8	53.8	128.8	128.8	259.1	4.6	5.7	98.8
	Archbold	-	37	18	2.8	30.0	2.0	3.9	20.8	88.8	158.1	244.3	2.6	1.9	42.4
	Ashland	-	65	30	5.4	82.4	3.8	7.8	39.7	156.1	155.7	310.0	6.1	5.0	80.5
30	Rubber and miscellaneous plastics products	-	7	7	1.4	16.1	1.1	2.2	10.7	39.6	29.0	68.3	1.2	1.3	23.7
	Ashtabula	-	48	20	3.9	51.5	3.0	5.6	36.8	98.7	99.3	195.0	7.5	4.7	91.7
30	Rubber and miscellaneous plastics products	-	10	7	1.7	18.9	1.5	2.7	14.5	33.8	38.1	71.6	4.5	1.5	21.6
	Athens	-	12	5	0.7	8.2	0.5	0.9	5.2	19.4	16.1	33.0	0.8	0.7	11.9
	Aurora	-	12	8	0.9	11.8	0.8	1.2	8.6	30.8	34.8	84.4	(D)	0.8	9.8
	Austintown (U)	-	22	11	3.2	52.3	2.4	4.7	35.9	127.0	120.4	243.1	3.0	5.9	96.7
34	Fabricated metal products	-	6	4	0.7	10.8	0.6	1.1	7.6	21.2	33.2	54.0	0.9	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	4	3	0.6	9.3	0.5	1.0	6.7	17.2	29.2	46.2	0.9	(NA)	(NA)
	Barberton	-	81	25	9.7	144.5	8.0	11.4	81.1	289.6	325.5	624.9	23.8	12.9	198.0
30	Rubber and miscellaneous plastics products	-	11	8	1.8	26.7	1.4	2.8	21.0	54.4	88.5	134.7	3.1	2.0	35.5
	Beachwood	-	41	10	0.7	10.2	0.3	0.8	3.3	15.5	15.6	30.7	1.1	0.6	9.0
	Bedford	-	81	23	2.5	35.7	1.8	3.5	22.8	89.5	57.4	125.8	3.1	3.0	41.6
	Bedford Heights	-	83	35	4.8	58.7	3.5	7.0	37.4	154.1	165.2	318.3	7.0	3.9	68.1
34	Fabricated metal products	-	8	6	0.8	10.2	0.6	1.3	7.4	19.1	18.9	37.8	(D)	0.6	12.6
35	Machinery, except electrical	-	12	4	0.5	7.5	0.4	0.8	5.1	14.7	6.6	21.2	0.8	0.6	10.0
	Bellaire	-	14	5	0.9	9.0	0.8	1.4	8.7	15.5	9.9	25.3	2.9	1.0	8.4
	Bellefontaine	-	22	11	2.9	35.9	2.3	4.4	26.5	68.8	58.9	126.9	4.3	2.4	42.4
	Berea	-	34	11	0.8	11.3	0.6	1.2	7.5	24.2	19.1	43.0	2.1	1.0	19.4
	Blanchester	-	8	7	0.5	8.0	0.4	0.7	3.5	13.8	10.9	24.7	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Blue Ash	–	75	45	5.8	70.5	4.3	8.2	44.7	182.8	152.8	312.8	11.7	4.3	77.2
34	Fabricated metal products	–	10	7	1.6	25.7	1.3	2.8	18.1	54.2	44.5	97.7	5.8	1.3	24.9
35	Machinery, except electrical	–	17	10	0.9	11.7	0.7	1.3	7.4	27.2	20.9	47.9	0.9	0.5	7.7
	Boardman (U)	–	41	18	2.4	38.0	1.1	2.1	11.8	41.0	53.7	94.4	2.9	(D)	(D)
	Bowling Green	–	28	13	1.1	13.5	0.8	1.8	8.2	30.3	31.8	81.9	2.8	1.7	30.0
	Brecksville	–	30	13	1.1	18.8	0.5	0.9	5.3	21.8	12.5	34.3	0.4	0.8	8.4
	Brooklyn	–	83	32	4.7	85.4	3.0	6.5	44.6	172.7	137.7	301.7	7.5	12.0	328.8
34	Fabricated metal products	–	22	12	1.2	17.0	0.9	1.8	11.7	38.1	15.7	51.2	(D)	1.8	38.0
35	Machinery, except electrical	–	27	13	1.6	29.6	1.2	2.6	21.2	116.1	92.5	203.8	1.6	1.5	54.1
	Brookville	–	15	8	0.7	7.0	0.8	1.0	5.0	13.7	19.1	32.8	1.3	(NA)	(NA)
	Bryan	–	44	21	4.8	59.5	3.4	6.5	38.5	138.8	140.8	278.4	10.1	4.1	82.3
35	Machinery, except electrical	–	8	3	2.0	28.2	1.4	2.9	17.6	56.2	43.8	99.7	3.6	1.7	32.4
	Bucyrus	–	38	13	2.4	29.1	1.9	3.7	21.9	75.0	68.1	144.1	2.0	3.9	78.1
	Cambridge	–	41	19	3.9	44.3	2.3	4.1	24.0	125.5	145.9	273.2	4.3	3.0	46.0
	Canton	–	207	78	25.9	431.9	18.8	35.8	304.8	940.3	858.8	1 758.6	66.0	25.5	484.2
27	Printing and publishing	–	32	9	1.1	14.2	0.6	1.5	9.7	32.5	18.2	50.6	1.1	1.1	18.7
275	Commercial printing	–	19	5	0.7	10.0	0.6	1.2	7.8	15.5	9.0	24.5	0.6	(NA)	(NA)
2752	Commercial printing, lithographic	–	8	3	0.6	7.9	0.5	0.9	6.1	11.8	6.9	18.7	0.4	(NA)	(NA)
30	Rubber and miscellaneous plastics products	–	8	3	0.6	6.1	0.5	0.6	4.3	15.9	12.9	28.6	0.5	0.6	8.5
34	Fabricated metal products	–	40	20	3.8	49.5	2.2	4.1	27.1	106.6	86.7	197.1	2.5	4.1	99.3
35	Machinery, except electrical	–	38	10	6.0	103.8	4.8	8.9	78.7	177.9	201.1	364.8	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	7	5	1.9	19.2	–	–	–	–	–	–	–	(NA)	(NA)
	Carrollton	–	18	8	0.8	5.4	0.5	0.8	3.7	12.8	13.8	26.2	0.4	(NA)	(NA)
	Celina	–	28	7	3.0	28.9	2.5	4.7	24.1	57.9	110.5	183.9	2.2	2.4	49.4
	Centerville	–	38	9	0.8	7.2	0.4	0.7	4.1	12.8	11.8	24.2	1.0	(NA)	(NA)
	Chardon	–	26	12	1.8	20.0	1.2	2.4	12.8	57.8	29.8	87.0	2.1	1.1	17.5
	Chillicothe	–	35	12	5.2	77.5	3.7	7.8	51.5	220.2	266.7	464.5	(D)	(D)	(D)
	Cincinnati	–	942	367	84.4	960.1	33.1	66.5	410.9	1 853.0	1 644.0	3 285.1	79.5	68.2	1 030.3
20	Food and kindred products	–	72	42	7.9	117.8	3.9	6.1	57.5	293.9	517.7	611.3	9.8	8.8	182.3
2026	Fluid milk	–	5	4	0.6	8.6	0.2	0.4	2.9	7.0	51.5	58.4	(D)	(NA)	(NA)
23	Apparel and other textile products	E2	35	15	1.9	15.7	1.4	2.4	9.2	32.4	25.3	57.2	0.6	2.4	27.6
25	Furniture and fixtures	–	26	9	0.9	8.9	0.7	1.3	8.0	15.5	14.6	30.0	0.3	1.6	22.9
26	Paper and allied products	E1	24	14	1.1	14.0	0.9	1.7	10.1	26.2	32.5	56.5	1.5	1.0	17.4
27	Printing and publishing	–	206	58	5.9	61.6	3.6	6.6	46.3	202.4	110.2	310.2	9.3	7.7	144.6
2751	Commercial printing, letterpress	E1	55	7	0.6	6.3	0.4	0.8	4.5	11.5	11.4	22.6	1.4	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Cincinnati—Con.														
27	Printing and publishing—Con.														
2752	Commercial printing, lithographic	E2	66	16	1.2	17.2	0.9	1.7	11.5	28.4	18.7	47.1	1.1	(NA)	(NA)
28	Chemicals and allied products	-	46	16	3.7	52.5	2.3	4.6	29.6	166.4	163.4	322.1	9.0	3.5	87.3
284	Soaps, cleaners, and toilet goods	-	10	3	1.0	13.7	0.6	1.1	5.8	54.7	34.8	89.3	1.0	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E2	21	6	0.7	7.6	0.6	1.2	5.3	12.2	16.9	29.1	0.9	1.2	14.4
3079	Miscellaneous plastics products	E1	18	6	0.7	7.3	0.8	1.1	5.1	11.4	16.1	27.5	0.9	(NA)	(NA)
33	Primary metal industries	-	30	18	1.3	18.0	1.1	2.3	13.8	37.6	38.5	75.9	2.0	1.3	20.9
336	Nonferrous foundries	-	12	8	0.7	10.8	0.6	1.4	8.7	24.7	18.3	42.2	(D)	(NA)	(NA)
34	Fabricated metal products	-	113	48	5.6	69.9	4.3	8.2	45.6	146.2	139.4	287.4	8.1	7.8	120.9
3469	Metal stampings, n.e.c.	-	10	4	0.7	8.1	0.6	0.9	4.8	14.9	13.9	28.6	0.5	(NA)	(NA)
35	Machinery, except electrical	-	134	52	12.5	187.8	7.0	14.2	96.4	326.9	209.6	544.5	17.5	10.5	153.4
3541	Machine tools, metal cutting types	-	13	10	7.3	116.1	3.4	6.9	55.2	183.8	99.1	292.8	10.8	(NA)	(NA)
3545	Machine tool accessories	E2	4	3	0.6	8.3	0.4	0.8	5.4	15.3	7.5	22.9	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	30	18	4.2	57.7	2.5	5.0	27.5	152.4	96.2	245.2	5.2	4.1	93.0
3643	Current-carrying wiring devices	-	5	5	0.8	9.5	0.6	1.1	5.6	16.9	14.6	29.8	(D)	(NA)	(NA)
38	Instruments and related products	-	25	6	0.6	6.5	0.4	0.7	3.1	12.1	8.8	20.6	0.3	0.5	8.5
39	Miscellaneous manufacturing industries	-	57	18	3.2	31.9	2.1	4.6	18.8	119.9	92.1	206.5	(D)	3.4	52.6
--	Administrative and auxiliary	-	56	30	12.0	233.8	-	-	-	-	-	-	-	(NA)	(NA)
	Circleville	-	**16**	**8**	**1.8**	**23.4**	**1.5**	**2.8**	**17.5**	**79.8**	**128.9**	**208.3**	**5.5**	**2.4**	**67.8**
	Cleveland	-	**2 099**	**765**	**120.8**	**1 847.9**	**78.9**	**156.3**	**1 075.4**	**3 523.5**	**3 634.0**	**7 159.7**	**149.1**	**131.2**	**2 457.0**
20	Food and kindred products	E1	94	42	4.5	62.3	2.7	5.4	33.2	152.1	301.1	452.6	4.9	5.6	141.7
201	Meat products	-	21	9	0.6	10.1	0.5	1.1	8.0	16.0	98.6	114.6	0.5	(NA)	(NA)
205	Bakery products	-	13	8	1.5	21.1	0.9	1.7	10.5	41.1	27.0	68.3	1.5	(NA)	(NA)
2051	Bread, cake, and related products	-	13	8	1.5	21.1	0.9	1.7	10.5	41.1	27.0	68.3	1.5	(NA)	(NA)
208	Beverages	E2	20	6	1.3	16.3	0.7	1.3	7.9	56.2	69.9	125.2	0.9	(NA)	(NA)
23	Apparel and other textile products	-	70	31	5.6	45.3	4.6	7.5	34.9	143.7	113.0	253.4	1.0	7.3	125.5
233	Women's and misses' outerwear	-	19	13	2.0	18.5	1.6	2.6	12.5	29.1	50.9	82.9	0.1	(NA)	(NA)
25	Furniture and fixtures	-	37	12	1.2	13.9	0.9	1.8	9.2	24.1	23.1	46.4	1.3	1.6	24.2
251	Household furniture	E1	13	5	0.5	4.8	0.4	0.8	3.5	8.9	12.4	21.3	(D)	(NA)	(NA)
254	Partitions and fixtures	-	15	5	0.6	8.0	0.4	0.9	5.1	13.3	9.0	21.6	(D)	(NA)	(NA)
26	Paper and allied products	-	41	24	1.9	23.4	1.5	2.8	15.6	43.0	59.4	102.3	2.7	2.3	32.3
284	Miscellaneous converted paper products	E1	20	10	0.8	7.5	0.5	0.9	4.7	14.7	18.9	33.5	1.2	(NA)	(NA)
265	Paperboard containers and boxes	-	21	14	1.3	15.9	1.0	1.9	10.9	28.3	40.5	68.8	1.6	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	10	7	0.8	10.3	0.6	1.2	7.0	18.2	32.4	50.6	1.3	(NA)	(NA)
27	Printing and publishing	-	297	64	8.6	128.9	4.3	8.3	61.6	267.2	124.5	389.8	7.2	9.9	202.5
2711	Newspapers	-	18	6	3.4	53.7	1.3	2.3	21.1	107.1	44.3	151.4	(D)	(NA)	(NA)
2721	Periodicals	-	12	6	1.0	15.1	(Z)	0.2	0.7	52.7	19.1	70.4	1.2	(NA)	(NA)
275	Commercial printing	E1	176	33	2.7	39.0	2.0	3.8	25.8	71.2	50.2	121.1	2.2	(NA)	(NA)
2752	Commercial printing, lithographic	-	79	17	1.3	18.9	0.8	1.6	11.2	33.0	22.9	55.2	0.8	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Cleveland—Con.													
27	Printing and publishing—Con.													
279	Printing trade services	–	45	10	0.6	8.9	0.4	0.8	6.3	14.3	3.1	17.3	0.5	(NA)	(NA)
28	Chemicals and allied products	–	106	38	4.5	71.1	2.5	5.3	35.5	262.5	305.1	567.1	12.6	6.3	186.4
281	Industrial inorganic chemicals	–	9	4	1.4	23.1	0.8	1.7	12.3	49.2	72.7	121.8	4.9	(NA)	(NA)
2851	Paints and allied products	–	19	9	1.3	21.9	0.7	1.7	11.4	78.8	88.8	167.1	2.3	(NA)	(NA)
289	Miscellaneous chemical products	–	44	15	1.0	15.0	0.5	1.1	6.5	67.2	74.9	142.5	3.0	(NA)	(NA)
2899	Chemical preparations, n.e.c.	–	32	9	0.6	9.8	0.4	0.7	4.6	53.3	59.8	113.5	2.3	(NA)	(NA)
29	Petroleum and coal products	–	26	17	1.5	25.0	0.6	1.1	6.8	50.4	92.0	142.6	(D)	(NA)	(NA)
295	Paving and roofing materials	–	10	7	0.9	16.3	0.3	0.8	3.2	30.5	26.8	56.8	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	51	24	1.7	18.2	1.3	2.6	11.7	43.2	40.1	83.4	1.8	1.7	42.1
3079	Miscellaneous plastics products	E2	43	20	1.2	13.2	1.0	1.9	8.2	34.0	31.5	65.6	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	57	18	2.0	28.1	1.6	2.9	19.8	64.9	48.2	112.8	3.2	2.0	40.7
329	Miscellaneous nonmetallic mineral products	–	23	9	0.9	12.4	0.7	1.3	8.4	29.1	22.5	51.5	1.6	(NA)	(NA)
33	Primary metal industries	–	95	48	16.2	305.0	13.2	25.9	236.0	789.6	946.3	1 733.2	39.6	13.6	308.2
332	Iron and steel foundries	–	11	7	1.5	23.6	1.3	2.4	17.9	46.4	57.8	105.1	3.0	(NA)	(NA)
3341	Secondary nonferrous metals	–	10	8	0.6	8.2	0.4	0.9	5.2	19.0	79.2	96.8	(D)	(NA)	(NA)
34	Fabricated metal products	–	399	168	20.2	308.1	15.7	32.6	219.9	586.3	629.1	1 221.1	28.2	20.2	389.4
341	Metal cans and shipping containers	–	6	5	0.7	9.8	0.5	1.1	7.0	25.0	33.0	60.9	0.2	(NA)	(NA)
342	Cutlery, hand tools, and hardware	E1	19	11	0.7	8.8	0.6	1.0	5.9	18.9	20.3	38.9	(D)	(NA)	(NA)
343	Plumbing and heating, except electric	E1	13	7	0.6	6.7	0.4	0.8	4.7	13.2	14.8	28.2	(D)	(NA)	(NA)
344	Fabricated structural metal products	–	60	23	2.0	26.8	1.4	2.9	16.9	56.7	66.3	122.0	2.9	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	–	11	5	0.5	8.5	0.4	0.8	5.7	13.9	15.8	29.6	0.7	(NA)	(NA)
3444	Sheet metal work	–	14	8	0.7	8.0	0.5	0.9	4.4	18.1	15.8	33.2	1.9	(NA)	(NA)
345	Screw machine products, bolts, etc.	–	48	22	2.4	35.2	1.8	3.9	23.4	44.1	59.4	116.3	4.4	(NA)	(NA)
3451	Screw machine products	E1	31	12	0.9	10.6	0.7	1.5	7.2	18.5	12.2	30.1	1.0	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers	–	17	10	1.5	24.6	1.2	2.4	16.2	25.6	47.2	86.2	3.4	(NA)	(NA)
346	Metal forgings and stampings	–	84	43	9.0	163.2	7.3	15.8	125.7	299.1	321.9	618.6	15.7	(NA)	(NA)
3462	Iron and steel forgings	–	14	10	1.6	24.6	1.3	2.3	16.7	44.3	63.3	106.9	3.3	(NA)	(NA)
3465	Automotive stampings	–	14	12	5.5	115.3	4.4	10.3	93.0	207.3	212.6	419.3	10.7	(NA)	(NA)
347	Metal services, n.e.c.	E2	106	30	1.5	16.2	1.3	2.5	10.8	31.8	14.2	45.8	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	63	27	3.3	41.4	2.4	4.6	25.5	97.5	99.1	190.4	2.2	(NA)	(NA)
3494	Valves and pipe fittings	–	11	5	0.7	10.4	0.5	1.0	6.0	32.8	24.0	52.2	1.0	(NA)	(NA)
3496	Miscellaneous fabricated wire products	–	15	8	0.7	8.8	0.6	1.1	5.4	13.5	10.0	23.5	0.4	(NA)	(NA)
3499	Fabricated metal products, n.e.c.	E1	20	4	0.5	6.5	0.4	0.8	4.4	15.7	10.9	26.9	0.1	(NA)	(NA)
35	Machinery, except electrical	–	469	126	19.8	305.6	14.3	29.4	201.4	608.3	346.9	957.6	25.4	22.0	425.1
353	Construction and related machinery	–	22	11	2.1	27.3	1.4	2.9	16.7	51.3	41.1	97.1	0.9	(NA)	(NA)
354	Metalworking machinery	–	169	50	8.8	140.2	6.2	12.8	88.8	279.0	127.5	407.9	7.8	(NA)	(NA)
355	Special industry machinery	–	27	15	1.9	30.8	1.4	2.9	21.0	58.9	43.4	100.5	2.0	(NA)	(NA)
356	General industrial machinery	–	50	16	1.9	28.6	1.3	2.7	18.1	58.3	39.1	98.8	4.4	(NA)	(NA)
3566	Speed changers, drives, and gears	–	7	5	0.8	14.1	0.5	1.2	8.3	33.7	18.3	52.5	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	–	187	26	4.3	69.6	3.4	6.9	50.9	138.7	78.2	214.8	9.6	(NA)	(NA)
36	Electric and electronic equipment	–	75	46	8.3	102.9	6.2	12.2	70.0	226.0	200.9	420.7	9.3	10.8	201.5

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Cleveland—Con.														
36	Electric and electronic equipment—Con.														
362	Electrical industrial apparatus	–	12	9	2.1	32.5	1.6	3.6	22.8	55.8	35.5	91.3	(D)	(NA)	(NA)
3621	Motors and generators	–	4	4	1.4	23.0	1.1	2.7	17.0	38.7	24.9	63.8	(D)	(NA)	(NA)
364	Electric lighting and wiring equipment	–	30	21	3.0	34.1	2.3	4.3	24.0	78.1	81.0	138.1	1.6	(NA)	(NA)
3714	Motor vehicle parts and accessories	–	21	9	4.1	66.3	3.0	6.1	45.5	96.2	117.0	212.2	4.0	(NA)	(NA)
38	Instruments and related products	–	41	16	2.1	26.1	1.3	2.6	12.6	59.2	29.2	85.4	1.5	1.8	33.0
382	Measuring and controlling devices	–	16	9	1.6	19.9	0.9	1.8	8.9	46.4	19.5	63.3	1.1	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	88	26	2.1	23.5	1.5	2.8	14.0	47.4	39.9	86.8	1.5	2.2	33.7
3993	Signs and advertising displays	E2	20	9	0.5	5.6	0.4	0.7	3.5	9.5	5.2	14.7	0.3	(NA)	(NA)
--	Administrative and auxiliary	–	57	38	11.7	223.5	–	–	–	–	–	–	–	(NA)	(NA)
	Coldwater	–	12	8	1.7	25.8	1.3	2.5	19.0	49.7	47.1	98.2	2.1	1.7	29.8
	Columbiana	–	28	10	1.7	23.8	1.3	2.4	15.5	47.4	38.8	81.1	1.8	1.7	28.1
	Columbus	–	793	282	55.5	825.3	34.3	88.8	455.2	1 732.3	1 887.5	3 399.0	88.8	62.1	1 181.5
20	Food and kindred products	–	72	40	6.2	88.9	4.2	8.8	59.2	384.8	547.1	931.4	16.0	6.9	200.6
201	Meat products	–	17	7	0.7	7.7	0.6	1.2	5.6	6.9	77.7	84.6	0.7	(NA)	(NA)
2011	Meat packing plants	–	9	5	0.6	6.4	0.5	1.0	4.8	3.4	67.5	70.8	0.5	(NA)	(NA)
202	Dairy products	–	5	4	1.0	15.0	0.6	1.3	9.1	84.2	95.5	178.7	(D)	(NA)	(NA)
204	Grain mill products	–	5	5	0.5	8.1	0.4	0.8	6.3	33.8	39.5	73.5	0.4	(NA)	(NA)
205	Bakery products	–	15	10	1.4	19.1	1.2	2.3	14.7	47.0	45.6	92.5	1.4	(NA)	(NA)
208	Beverages	–	8	7	1.7	29.4	1.0	2.0	18.2	179.0	214.3	392.6	8.8	(NA)	(NA)
25	Furniture and fixtures	–	17	6	0.7	9.6	0.5	1.1	6.1	16.1	11.6	27.3	0.4	(NA)	(NA)
26	Paper and allied products	E1	16	9	0.6	7.1	0.5	1.0	5.2	14.0	21.4	35.3	0.8	(NA)	(NA)
27	Printing and publishing	–	139	32	5.3	69.0	2.6	4.9	36.3	198.1	88.8	286.7	4.6	5.3	104.3
275	Commercial printing	–	91	14	1.3	16.3	1.0	1.8	11.7	26.4	19.0	45.5	1.5	(NA)	(NA)
2752	Commercial printing, lithographic	–	48	11	1.0	13.3	0.8	1.4	9.6	20.3	15.0	35.3	1.2	(NA)	(NA)
28	Chemicals and allied products	–	51	18	2.1	29.1	1.0	2.1	11.4	75.2	122.8	197.4	3.7	2.0	44.6
30	Rubber and miscellaneous plastics products	–	26	13	1.3	17.8	1.1	2.3	13.2	45.6	55.2	98.9	8.1	0.7	11.9
32	Stone, clay, and glass products	–	35	15	3.2	42.2	2.5	4.7	28.9	77.6	47.8	125.6	4.5	4.1	79.0
327	Concrete, gypsum, and plaster products	E1	17	8	0.5	7.5	0.3	0.6	3.8	14.5	18.6	31.4	(D)	(NA)	(NA)
33	Primary metal industries	–	20	8	3.1	43.7	2.5	4.6	35.5	88.6	97.7	168.3	5.3	(NA)	(NA)
34	Fabricated metal products	–	90	34	4.0	51.4	3.0	5.8	33.7	114.0	101.5	213.8	18.9	4.3	70.5
35	Machinery, except electrical	–	106	37	7.7	105.1	5.3	10.3	71.0	199.3	238.7	431.9	10.1	7.5	152.3
354	Metalworking machinery	–	19	7	0.8	11.7	0.6	1.1	7.5	18.7	7.9	25.5	0.8	(NA)	(NA)
358	Refrigeration and service machinery	–	13	6	1.1	14.0	0.7	1.4	9.0	24.8	51.4	74.0	1.1	(NA)	(NA)
3585	Refrigeration and heating equipment	–	6	4	1.0	13.3	0.7	1.4	8.8	23.3	50.1	71.2	1.1	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	35	4	0.5	6.6	0.3	0.7	3.8	11.4	6.9	18.1	0.6	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E1	35	4	0.5	6.6	0.3	0.7	3.8	11.4	6.9	18.1	0.6	(NA)	(NA)
371	Motor vehicles and equipment	–	12	3	1.0	14.7	0.8	1.4	11.3	31.4	21.9	53.3	(D)	(NA)	(NA)
38	Instruments and related products	–	23	9	2.8	46.3	1.5	2.9	19.1	67.5	48.3	115.1	2.2	2.5	46.2

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Columbus—Con.														
39	Miscellaneous manufacturing industries	–	41	8	1.0	12.0	0.7	1.4	7.1	21.8	14.8	38.1	0.4	1.0	15.1
399	Miscellaneous manufactures	–	29	5	0.8	10.2	0.6	1.2	6.2	18.7	11.7	29.9	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	40	22	4.1	89.5	–	–	–	–	–	–	–	(NA)	(NA)
	Conneaut	–	22	18	2.3	23.3	1.8	3.1	16.5	57.0	42.7	100.2	5.8	1.7	29.0
	Coshocton	–	37	17	4.7	89.2	3.3	7.1	44.8	155.8	190.4	344.4	17.1	4.4	93.8
27	Printing and publishing	–	8	3	0.8	8.4	0.3	0.6	2.9	14.3	6.7	20.9	(D)	0.7	9.3
	Cuyahoga Falls	–	67	22	2.2	27.2	1.7	3.3	19.7	88.2	60.8	123.4	3.3	8.1	73.3
35	Machinery, except electrical	–	25	9	0.8	10.9	0.6	1.3	8.1	17.2	8.7	25.6	1.3	0.8	13.3
	Dayton	–	488	189	57.1	1 016.1	40.0	82.7	872.2	1 831.7	1 537.4	3 319.1	145.9	72.4	1 457.5
205	Bakery products	–	6	3	0.5	6.2	0.3	0.6	3.7	14.0	9.8	23.3	0.2	(NA)	(NA)
275	Commercial printing	–	45	9	4.1	63.4	3.5	6.6	53.7	83.5	85.6	169.8	(D)	(NA)	(NA)
332	Iron and steel foundries	–	5	4	1.2	17.5	1.1	2.1	14.4	38.2	27.8	66.2	1.7	(NA)	(NA)
3321	Gray iron foundries	–	5	4	1.2	17.5	1.1	2.1	14.4	38.2	27.8	66.2	1.7	(NA)	(NA)
344	Fabricated structural metal products	E1	21	9	0.7	10.0	0.5	1.1	6.1	17.5	17.1	34.1	1.1	(NA)	(NA)
346	Metal forgings and stampings	–	9	5	0.7	10.4	0.6	1.2	8.2	16.7	16.1	32.2	1.3	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	11	4	0.6	7.5	0.4	0.9	5.0	16.0	20.0	36.0	1.5	(NA)	(NA)
354	Metalworking machinery	–	82	28	3.0	55.0	2.3	5.1	38.8	108.2	34.2	138.2	4.7	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures	–	61	22	1.7	33.7	1.5	3.6	28.5	55.6	18.3	72.4	(D)	(NA)	(NA)
356	General industrial machinery	–	21	8	2.4	34.6	1.5	3.2	20.6	75.3	40.0	114.2	5.2	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	31	12	0.5	6.3	0.4	1.5	4.4	11.3	5.4	16.3	(D)	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E1	31	12	0.5	6.3	0.4	1.5	4.4	11.3	5.4	18.3	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	18	12	4.9	103.9	–	–	–	–	–	–	–	(NA)	(NA)
	Defiance	–	35	15	6.8	128.9	5.6	11.5	105.5	288.2	219.3	501.0	(D)	(D)	(D)
	Delaware	–	32	19	3.7	47.4	2.7	5.2	31.8	98.2	110.2	204.6	3.9	3.0	54.5
	Dover	–	34	20	2.2	33.6	1.4	2.9	20.7	75.7	143.2	217.8	8.6	2.2	45.1
	East Cleveland	–	37	15	3.6	79.9	1.3	2.3	12.5	40.1	28.6	88.6	1.4	3.8	30.1
	Eastlake	–	84	23	2.2	29.2	1.8	3.1	16.1	46.3	33.2	78.1	2.7	1.9	48.5
34	Fabricated metal products	–	16	6	0.5	5.9	0.4	0.8	4.1	14.3	12.1	26.1	0.5	0.7	28.3
	East Liverpool	–	27	10	1.2	11.8	1.0	1.7	7.7	22.8	12.2	35.1	0.8	1.4	15.9
32	Stone, clay, and glass products	–	7	5	0.9	7.7	0.7	1.3	5.5	14.3	5.2	19.4	(D)	1.0	9.3
	East Palestine	–	29	11	1.1	11.9	0.8	1.8	8.8	18.4	16.2	32.5	1.0	1.1	15.5
	Eaton	–	20	8	1.3	13.6	1.0	1.9	9.6	32.5	25.4	57.2	2.1	1.1	20.8
	Elmwood Place	–	12	8	1.4	17.6	1.0	1.7	10.8	35.2	19.2	54.4	(D)	1.0	23.7
	Elyria	–	119	50	9.6	139.7	6.0	12.5	77.2	325.3	278.0	589.8	16.0	9.0	191.3
349	Miscellaneous fabricated metal products	–	4	4	0.9	11.9	0.7	1.4	8.7	22.6	10.0	31.3	(D)	(NA)	(NA)
	Euclid	–	142	67	17.4	324.5	11.5	23.4	192.3	608.0	586.5	1 181.2	41.0	16.4	373.1
33	Primary metal industries	–	17	10	2.1	34.2	1.5	3.3	23.3	61.4	130.9	192.8	4.0	2.0	19.3
34	Fabricated metal products	–	20	12	2.5	35.2	1.8	3.6	24.4	55.8	41.9	100.8	(D)	0.9	15.9

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Euclid—Con.														
35	Machinery, except electrical	-	58	24	3.9	63.1	2.7	5.5	39.6	132.5	116.3	248.2	4.6	4.9	132.7
354	Metalworking machinery	-	27	11	1.2	17.9	0.8	1.8	10.2	35.1	19.5	56.4	2.5	(NA)	(NA)
	Fairfax	-	**28**	**15**	**1.7**	**21.7**	**1.1**	**2.1**	**11.5**	**37.9**	**41.8**	**79.6**	**1.8**	**1.5**	**21.7**
	Findlay	-	**69**	**30**	**7.7**	**113.9**	**4.7**	**9.2**	**56.6**	**261.0**	**331.0**	**569.3**	**14.6**	**6.7**	**139.4**
3079	Miscellaneous plastics products	-	4	3	0.6	5.6	0.5	1.1	4.2	7.8	13.8	21.6	0.5	(NA)	(NA)
	Forest Park	-	**16**	**8**	**0.6**	**7.1**	**0.5**	**0.9**	**4.1**	**12.7**	**20.9**	**33.6**	**1.8**	**(NA)**	**(NA)**
	Fostoria	-	**37**	**22**	**7.1**	**113.6**	**5.6**	**11.2**	**66.0**	**247.6**	**269.3**	**513.6**	**(D)**	**5.9**	**144.4**
33	Primary metal industries	-	3	3	1.2	21.6	1.0	1.9	16.7	29.8	32.4	61.9	(D)	(NA)	(NA)
	Franklin	-	**21**	**11**	**0.7**	**9.6**	**0.5**	**1.2**	**6.6**	**21.2**	**29.0**	**50.1**	**1.1**	**1.6**	**22.3**
	Galion	-	**42**	**20**	**3.9**	**53.2**	**2.4**	**4.5**	**26.7**	**99.4**	**78.9**	**179.4**	**2.2**	**5.0**	**74.1**
35	Machinery, except electrical	-	9	6	1.8	26.5	0.9	1.8	12.2	59.0	48.9	111.3	(D)	(NA)	(NA)
	Gallipolis	-	**14**	**5**	**0.5**	**6.4**	**0.4**	**0.6**	**4.8**	**16.6**	**24.2**	**40.4**	**(D)**	**(NA)**	**(NA)**
	Garfield Heights	-	**56**	**16**	**1.6**	**23.8**	**1.3**	**2.6**	**15.1**	**46.7**	**54.6**	**100.9**	**4.0**	**1.5**	**31.3**
	Geneva	-	**13**	**7**	**0.7**	**9.2**	**0.6**	**1.0**	**7.1**	**17.3**	**13.3**	**30.6**	**0.4**	**0.9**	**14.6**
	Girard	-	**17**	**9**	**0.9**	**13.9**	**0.7**	**1.4**	**9.2**	**35.7**	**55.8**	**69.5**	**1.2**	**1.1**	**17.2**
	Greenfield	-	**13**	**9**	**1.4**	**13.8**	**1.1**	**2.4**	**11.6**	**32.6**	**36.3**	**66.7**	**0.9**	**1.2**	**19.3**
	Greenville	-	**35**	**15**	**2.6**	**30.2**	**2.2**	**4.3**	**23.9**	**97.5**	**90.3**	**183.2**	**5.6**	**2.2**	**48.8**
	Grove City	-	**12**	**5**	**0.9**	**6.6**	**0.7**	**1.2**	**4.6**	**13.6**	**10.1**	**24.2**	**0.4**	**(NA)**	**(NA)**
	Hamilton	-	**96**	**39**	**6.2**	**112.9**	**5.5**	**10.7**	**67.7**	**190.0**	**230.1**	**425.4**	**6.6**	**5.8**	**115.4**
33	Primary metal industries	-	5	4	0.6	7.8	0.5	1.1	6.0	12.5	10.6	23.0	(D)	0.6	9.0
34	Fabricated metal products	-	19	6	1.4	17.5	1.1	2.1	12.3	42.3	24.4	65.0	0.9	1.9	46.4
	Harrison	-	**16**	**7**	**2.5**	**20.6**	**2.1**	**3.5**	**15.6**	**52.8**	**65.4**	**117.1**	**1.1**	**1.3**	**22.3**
	Highland Heights	-	**16**	**10**	**2.5**	**34.1**	**1.4**	**2.5**	**15.0**	**52.2**	**41.3**	**94.7**	**(D)**	**1.7**	**26.1**
36	Electric and electronic equipment	-	5	4	2.0	25.3	1.2	2.2	13.4	47.3	38.1	86.7	(D)	(NA)	(NA)
	Hilliard	-	**17**	**6**	**1.2**	**14.3**	**0.8**	**1.6**	**8.6**	**37.6**	**30.3**	**65.4**	**1.6**	**1.0**	**29.7**
	Hubbard	-	**11**	**4**	**0.6**	**7.2**	**0.5**	**0.6**	**4.8**	**15.1**	**22.2**	**36.9**	**(D)**	**(D)**	**(D)**
	Independence	-	**27**	**16**	**1.9**	**35.4**	**0.7**	**1.4**	**9.3**	**23.6**	**16.6**	**39.8**	**2.3**	**2.0**	**15.7**
35	Machinery, except electrical	-	11	7	0.5	7.7	0.4	0.8	6.0	12.5	7.7	19.8	1.8	(NA)	(NA)
	Ironton	-	**20**	**8**	**1.4**	**16.2**	**1.2**	**2.0**	**14.7**	**25.1**	**23.7**	**49.6**	**(D)**	**2.3**	**46.6**
	Jackson	-	**18**	**7**	**1.0**	**9.3**	**0.9**	**1.7**	**7.2**	**26.5**	**22.9**	**52.2**	**2.3**	**0.8**	**17.8**
	Kent	-	**60**	**24**	**2.3**	**33.0**	**1.7**	**3.4**	**21.3**	**64.3**	**38.6**	**100.1**	**2.6**	**3.5**	**57.2**
35	Machinery, except electrical	-	27	11	0.8	12.1	0.7	1.4	9.1	21.2	10.9	32.4	(D)	1.2	17.8
	Kenton	-	**33**	**15**	**1.4**	**13.7**	**1.1**	**2.1**	**9.7**	**53.6**	**66.3**	**117.2**	**(D)**	**2.3**	**49.6**
	Lakewood	-	**66**	**22**	**2.0**	**36.1**	**1.2**	**2.1**	**12.0**	**74.5**	**56.2**	**128.5**	**3.5**	**1.8**	**42.2**
36	Electric and electronic equipment	E1	8	6	0.7	8.8	0.5	0.9	5.1	23.7	13.5	35.3	0.9	(NA)	(NA)
	Lancaster	-	**60**	**29**	**9.7**	**116.1**	**8.8**	**13.6**	**75.1**	**240.4**	**160.8**	**393.6**	**17.9**	**9.3**	**134.5**

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Lebanon	–	20	6	0.5	4.3	0.4	0.7	2.6	7.2	10.2	17.3	0.5	(NA)	(NA)
	Lexington	–	6	5	0.7	5.0	0.5	1.1	3.4	9.1	10.2	19.0	0.4	(D)	(D)
	Lima	–	67	32	7.6	109.2	5.4	10.5	73.2	305.9	1 065.3	1 354.5	9.3	6.0	179.9
	Lockland	–	23	15	3.3	42.9	2.3	4.7	30.1	95.2	92.6	165.6	2.7	3.3	70.5
	Logan	–	14	6	1.3	15.6	1.1	2.3	13.0	36.3	22.6	59.0	1.3	2.4	41.9
32	Stone, clay, and glass products	–	5	4	0.6	11.3	0.7	1.5	9.3	26.3	15.1	43.3	0.9	0.6	19.0
	London	–	11	5	0.7	6.2	0.6	1.1	5.6	24.6	21.6	46.3	(D)	0.9	14.6
	Macedonia	–	35	13	1.0	12.6	0.6	1.6	7.6	31.4	31.6	62.9	2.1	(NA)	(NA)
	Mansfield	–	126	56	13.1	172.2	9.2	17.9	114.5	316.6	476.0	795.6	(D)	15.6	321.1
35	Machinery, except electrical	–	22	6	1.3	17.2	0.6	1.6	10.1	36.1	32.2	69.4	0.3	1.0	20.2
356	General industrial machinery	–	3	3	1.0	12.9	0.6	1.2	6.9	31.6	26.9	56.1	(D)	(NA)	(NA)
3561	Pumps and pumping equipment	–	3	3	1.0	12.9	0.6	1.2	6.9	31.8	26.9	56.1	(D)	(NA)	(NA)
36	Electric and electronic equipment	–	7	7	5.1	63.3	3.1	5.7	36.1	91.1	126.7	216.9	4.5	7.1	119.7
	Maple Heights	–	43	14	1.6	26.6	1.4	2.6	16.9	64.2	63.0	142.9	3.0	2.1	39.9
	Marion	–	57	27	9.9	145.4	7.6	13.4	103.6	373.9	540.7	927.7	16.5	7.2	147.0
35	Machinery, except electrical	–	13	6	5.5	63.6	4.4	7.3	64.4	177.3	224.1	409.3	4.1	(NA)	(NA)
	Martins Ferry	–	16	6	1.7	26.3	1.3	2.3	16.0	92.2	176.6	269.6	1.1	2.2	31.7
	Marysville	–	16	11	1.6	26.5	0.7	1.3	7.2	119.7	71.4	206.6	1.4	1.0	60.5
	Mason	–	17	6	1.3	12.5	1.1	2.0	9.7	25.6	46.5	74.2	3.6	0.6	9.3
	Massillon	–	58	26	5.3	70.6	4.0	7.6	47.5	156.3	295.9	453.0	9.2	7.3	156.2
34	Fabricated metal products	–	6	6	1.2	15.1	0.9	1.6	11.1	39.6	44.2	84.4	2.5	(NA)	(NA)
	Maumee	–	27	10	1.6	33.0	1.3	2.7	23.3	63.5	147.5	224.9	(D)	0.7	12.5
	Mayfield	–	15	10	1.3	17.5	0.6	1.4	7.1	32.3	25.1	56.0	2.5	(NA)	(NA)
35	Machinery, except electrical	–	6	5	0.5	7.5	0.3	0.7	4.2	16.1	7.1	24.6	(D)	(NA)	(NA)
	Medina	–	61	40	3.9	45.1	2.7	5.2	26.6	105.2	135.7	242.7	6.2	3.2	55.0
	Mentor	–	113	34	6.3	96.0	4.3	6.3	59.9	174.5	152.0	322.3	6.7	4.1	69.9
34	Fabricated metal products	–	14	5	1.2	15.1	0.6	1.6	10.4	34.5	15.9	47.4	1.6	1.1	16.9
35	Machinery, except electrical	–	61	15	4.0	71.6	2.7	5.1	42.6	119.1	119.6	236.5	4.3	2.3	36.7
	Miamisburg	–	31	16	4.6	74.5	1.6	3.5	21.5	111.4	54.4	169.0	9.0	4.0	62.6
	Middletown	–	59	34	14.3	269.6	9.6	19.1	170.2	492.6	612.0	1 110.1	32.6	13.7	290.4
	Millersburg	–	34	11	0.6	6.4	0.6	1.2	5.1	12.6	23.9	36.6	2.0	0.5	6.5
	Mogadore	–	11	6	0.5	5.4	0.4	0.7	3.3	11.4	6.6	19.4	0.3	0.6	23.6
	Monroe	–	5	4	0.7	7.5	0.5	0.6	4.7	15.0	16.2	32.6	(D)	(D)	(D)
	Montgomery	–	12	1	0.6	1.7	(Z)	0.1	0.3	2.9	2.5	5.4	0.1	(NA)	(NA)
	Montpelier	–	16	10	1.4	19.2	1.0	2.0	12.6	44.7	73.6	116.4	2.1	1.2	30.1
35	Machinery, except electrical	–	5	4	0.8	10.1	0.5	1.0	6.1	19.6	11.5	30.5	(D)	0.7	12.0

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Moraine	-	54	29	2.8	37.9	1.6	3.2	17.8	80.4	71.8	132.6	9.7	1.9	26.7
	Mount Gilead	-	13	4	1.1	14.7	0.8	1.7	9.7	30.4	28.4	57.2	0.8	(D)	(D)
	Nelsonville	-	12	4	0.5	3.7	0.4	0.7	2.8	8.0	6.8	14.8	0.4	(NA)	(NA)
	Newburgh Heights	-	12	4	0.8	13.5	0.5	1.1	9.1	24.9	28.3	52.8	1.2	1.2	21.6
	Newcomerstown	-	21	5	0.9	9.8	0.7	1.3	7.5	19.9	20.7	41.5	1.1	1.1	19.3
	New Lexington	-	11	4	0.5	6.3	0.4	0.9	4.4	12.1	8.0	19.8	0.9	(D)	(D)
	New Philadelphia	-	40	14	2.4	32.1	1.7	3.1	20.3	71.9	73.7	145.1	5.2	2.1	45.9
35	Machinery, except electrical	-	8	4	1.1	16.4	0.7	1.2	10.1	40.3	30.6	70.4	1.8	(NA)	(NA)
	Niles	-	40	22	2.5	39.9	1.9	3.8	27.5	78.2	138.4	212.3	5.3	2.7	50.7
344	Fabricated structural metal products	-	11	7	0.7	11.3	0.5	0.9	7.4	25.2	28.4	53.3	0.6	(NA)	(NA)
	North Royalton	-	38	9	0.5	5.9	0.4	0.7	4.0	11.2	8.7	20.3	1.0	(NA)	(NA)
	Norton	-	13	7	0.8	7.1	0.5	0.9	5.2	12.5	13.8	26.0	0.2	(NA)	(NA)
	Norwalk	-	51	28	3.8	42.8	2.8	5.6	28.8	84.5	94.8	181.3	4.5	2.8	34.5
38	Instruments and related products	-	5	3	0.5	3.2	0.4	0.8	2.3	5.4	3.5	8.9	0.1	(NA)	(NA)
	Norwood	-	55	32	9.8	178.6	7.5	17.0	132.4	486.3	984.5	1 451.0	22.3	7.9	125.4
26	Paper and allied products	-	8	5	1.2	13.7	1.0	2.0	11.0	29.0	34.5	63.8	(D)	1.1	19.3
	Oberlin	-	13	4	0.7	9.7	0.4	0.7	3.5	19.5	6.9	25.5	(D)	(NA)	(NA)
	Orrville	-	44	28	3.9	51.3	2.8	5.7	33.9	116.9	225.3	340.9	15.3	3.7	53.8
20	Food and kindred products	-	6	5	0.7	9.3	0.5	1.0	6.2	38.2	155.6	193.6	(D)	0.7	8.6
35	Machinery, except electrical	-	12	5	0.6	7.3	0.4	0.8	5.0	17.5	16.0	31.8	(D)	(NA)	(NA)
371	Motor vehicles and equipment	-	3	3	0.7	9.6	0.6	1.2	7.1	14.0	13.4	28.8	(D)	(NA)	(NA)
	Painesville	-	34	13	2.0	29.1	1.2	2.5	14.8	81.7	57.7	137.0	6.6	(D)	(D)
	Peulding	-	8	4	0.5	8.3	0.4	0.8	5.4	13.5	16.0	29.8	(D)	0.5	8.4
	Perrysburg	-	18	5	0.5	8.1	0.3	0.6	3.4	23.7	27.1	50.5	0.8	4.2	89.8
	Piqua	-	89	34	4.3	50.2	3.4	6.7	35.3	101.2	122.8	221.8	5.8	4.3	71.9
35	Machinery, except electrical	-	14	5	1.2	16.1	0.9	1.9	10.6	32.0	25.2	57.4	1.4	1.0	18.3
	Port Clinton	-	25	5	1.1	14.5	1.0	1.8	11.4	23.8	30.9	54.7	1.4	1.2	18.0
	Ravenna	-	41	24	2.2	24.2	1.6	3.2	15.5	50.3	46.1	98.1	1.9	2.7	48.3
	Reading	-	24	10	2.9	48.8	1.2	2.4	15.0	109.1	73.7	181.9	6.6	3.3	95.1
	Rocky River	-	37	8	0.5	8.9	0.2	0.4	2.1	8.6	7.4	16.0	0.5	0.5	5.2
	Salem	-	58	27	4.5	58.1	3.3	6.2	38.9	119.1	88.4	201.0	4.7	4.5	63.5
34	Fabricated metal products	-	8	6	1.1	14.3	0.9	1.6	11.7	33.7	25.2	58.9	1.2	1.4	23.4
35	Machinery, except electrical	-	25	8	2.1	32.3	1.3	2.6	19.0	61.9	38.7	93.7	2.3	2.0	25.2
	Sandusky	-	83	37	7.5	116.7	5.6	11.4	82.5	228.2	234.3	458.9	18.1	9.8	223.8
	Sebring	-	23	14	1.7	14.0	1.4	2.8	10.8	33.8	25.5	59.0	0.7	1.5	16.3
	Sharonville	-	52	24	7.7	189.7	5.9	13.4	128.4	355.9	339.9	694.1	(D)	6.3	218.0

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Shelby	–	**27**	**12**	**2.8**	**41.4**	**2.1**	**4.3**	**29.3**	**109.8**	**141.7**	**249.4**	**(D)**	**2.1**	**43.0**
	Sidney	–	**51**	**25**	**7.2**	**89.2**	**5.8**	**10.9**	**50.2**	**183.9**	**218.8**	**381.9**	**9.7**	**8.3**	**107.4**
336	Nonferrous foundries	–	5	4	0.8	9.3	0.6	1.1	6.5	18.3	11.9	30.1	(D)	(NA)	(NA)
3361	Aluminum foundries	–	5	4	0.8	9.3	0.6	1.1	8.5	18.3	11.9	30.1	(D)	(NA)	(NA)
35	Machinery, except electrical	–	24	12	4.6	37.4	3.4	6.4	25.4	99.4	141.5	242.2	8.5	4.0	89.9
	Solon	–	**95**	**58**	**9.0**	**126.5**	**5.4**	**11.1**	**83.8**	**282.3**	**298.4**	**547.0**	**21.8**	**5.3**	**119.0**
33	Primary metal industries	–	7	6	0.5	7.6	0.4	0.8	5.2	18.9	32.9	49.4	1.3	0.5	7.1
34	Fabricated metal products	–	14	7	1.3	19.0	0.9	2.1	11.0	48.9	55.7	97.8	2.4	0.7	14.2
35	Machinery, except electrical	–	29	17	2.1	28.1	1.4	2.6	16.1	62.7	44.1	106.7	4.1	1.4	23.8
354	Metalworking machinery	–	10	4	0.7	7.9	0.6	1.0	5.5	19.9	5.3	25.6	(D)	(NA)	(NA)
38	Instruments and related products	E1	6	4	0.8	11.4	0.4	0.9	5.1	26.8	11.7	37.7	0.8	0.7	15.5
	South Euclid	–	**37**	**8**	**0.8**	**10.5**	**0.5**	**1.0**	**8.0**	**18.9**	**15.1**	**33.7**	**1.3**	**1.1**	**18.7**
	Springfield	–	**150**	**64**	**14.3**	**202.9**	**9.8**	**18.6**	**138.0**	**418.4**	**584.8**	**978.7**	**25.9**	**18.2**	**306.7**
27	Printing and publishing	–	13	5	0.5	8.6	0.4	0.6	4.5	13.3	8.8	20.2	(D)	(NA)	(NA)
34	Fabricated metal products	–	25	12	0.9	10.5	0.6	1.2	6.0	16.8	16.3	33.5	0.7	(NA)	(NA)
35	Machinery, except electrical	–	39	16	3.4	46.4	2.2	4.3	27.2	125.3	79.7	195.4	3.9	2.7	46.2
	Stow	–	**34**	**11**	**1.4**	**20.0**	**1.0**	**2.0**	**11.7**	**40.1**	**38.8**	**77.9**	**3.0**	**1.8**	**35.0**
	Strongsville	–	**48**	**22**	**2.3**	**33.9**	**1.2**	**2.5**	**16.8**	**82.9**	**49.9**	**111.7**	**2.2**	**1.1**	**23.5**
35	Machinery, except electrical	–	14	7	1.3	19.4	0.7	1.5	11.0	33.4	29.2	61.9	1.0	0.7	13.6
	Swanton	–	**14**	**6**	**0.8**	**9.0**	**0.7**	**1.2**	**8.1**	**24.7**	**31.9**	**56.4**	**(D)**	**0.5**	**10.0**
	Tallmadge	–	**34**	**16**	**1.3**	**17.1**	**0.9**	**1.8**	**9.7**	**32.5**	**23.4**	**56.0**	**1.5**	**1.4**	**22.7**
35	Machinery, except electrical	–	18	9	0.8	12.3	0.5	1.0	6.7	21.9	16.2	38.3	0.9	0.6	13.3
	Tiffin	–	**36**	**19**	**4.8**	**83.1**	**3.8**	**7.6**	**44.3**	**140.4**	**119.1**	**256.5**	**8.3**	**5.2**	**100.2**
	Tipp City	–	**35**	**15**	**2.3**	**27.2**	**1.4**	**3.1**	**17.7**	**56.2**	**47.6**	**103.0**	**2.9**	**1.8**	**24.5**
	Toledo	–	**641**	**238**	**54.8**	**919.8**	**35.6**	**88.7**	**538.8**	**1 957.2**	**2 772.0**	**4 705.2**	**107.4**	**55.8**	**1 117.9**
20	Food and kindred products	–	26	11	2.0	29.7	1.3	2.9	20.0	133.9	236.3	369.1	8.5	2.4	82.7
27	Printing and publishing	–	101	15	2.0	31.1	1.2	2.2	17.3	89.1	21.9	110.8	3.5	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	26	12	0.7	7.7	0.5	1.1	5.2	17.2	11.7	28.8	0.6	(NA)	(NA)
3079	Miscellaneous plastics products	E2	23	9	0.5	4.9	0.4	0.8	3.4	10.7	9.0	19.7	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	30	11	4.7	77.3	3.9	7.7	64.4	148.4	105.9	249.0	(D)	3.0	82.8
33	Primary metal industries	–	23	17	4.1	62.9	3.4	6.6	49.8	114.9	251.4	366.8	(D)	(NA)	(NA)
34	Fabricated metal products	–	95	42	4.9	69.0	3.9	7.2	50.4	130.2	196.4	326.1	6.2	(NA)	(NA)
3469	Metal stampings, n.e.c.	–	15	9	1.3	17.1	1.1	1.9	12.9	30.1	30.1	61.1	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	13	7	0.5	7.5	0.4	0.8	5.5	11.7	21.0	32.6	0.7	(NA)	(NA)
35	Machinery, except electrical	–	130	37	4.9	81.2	3.1	6.3	47.0	179.9	87.3	270.8	5.0	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Toledo—Con.														
35	Machinery, except electrical—Con.														
354	Metalworking machinery	-	51	16	1.1	19.4	0.9	2.0	14.9	26.3	14.8	41.0	1.4	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures	-	40	12	0.9	16.1	0.7	1.7	13.1	23.1	11.3	33.2	1.2	(NA)	(NA)
356	General industrial machinery	-	23	7	2.2	37.3	1.1	2.3	18.4	65.5	44.6	110.3	(D)	(NA)	(NA)
38	Instruments and related products	-	18	4	0.9	6.5	0.6	1.1	5.4	19.6	10.1	29.6	0.5	(NA)	(NA)
--	Administrative and auxiliary	-	31	22	7.6	165.4	-	-	-	-	-	-	-	(NA)	(NA)
	Troy	-	41	19	7.1	96.2	4.2	6.9	52.2	195.1	236.0	420.0	8.4	4.9	91.6
	Twinsburg	-	34	16	5.6	96.2	4.8	9.5	77.3	156.5	141.8	295.6	8.4	(D)	(D)
	Upper Sandusky	-	31	15	1.9	19.1	1.7	3.1	15.4	40.0	46.6	87.7	(D)	1.6	23.9
	Urbana	-	36	14	2.7	29.2	2.2	4.3	22.4	107.9	71.3	170.5	(D)	2.9	70.2
	Vandalia	-	24	12	4.4	79.2	3.8	7.4	64.5	165.0	159.9	342.6	11.6	3.1	74.9
	Van Wert	-	31	16	4.0	55.4	3.0	6.0	37.1	130.0	173.6	300.6	4.1	3.3	73.0
	Walton Hills	-	31	17	5.6	113.6	4.5	9.7	92.2	199.6	247.4	442.3	16.5	(D)	(D)
	Warren	-	69	27	17.4	299.3	13.6	26.4	225.8	703.2	382.6	1 067.4	30.4	21.2	463.0
	Warrensville Heights	-	53	23	2.1	32.8	1.3	2.3	12.9	36.6	79.7	116.4	1.7	2.3	39.1
	Washington	-	36	15	2.6	32.3	1.9	3.7	21.4	76.9	104.0	180.4	(D)	2.0	37.0
	Wauseon	-	29	15	2.0	20.7	1.6	3.1	14.7	44.2	47.8	91.1	2.8	2.3	30.6
	Waverly City	-	12	5	0.7	7.1	0.6	1.3	5.5	13.7	16.6	30.0	(D)	(D)	(D)
	Wellston	-	14	8	1.4	13.3	1.1	2.1	9.7	25.5	77.8	103.1	1.7	0.7	12.1
	Wellsville	-	6	3	0.5	5.6	0.4	0.9	4.3	9.7	4.4	14.1	(D)	(D)	(D)
	West Carrollton	-	26	12	1.9	30.6	1.4	3.2	22.6	53.3	64.1	116.3	(D)	2.0	33.1
	Westerville	-	20	12	1.0	11.5	0.6	1.1	7.3	24.0	23.6	47.2	0.9	0.6	16.1
	Westlake	-	38	14	1.6	19.3	1.1	2.2	12.2	36.0	47.2	62.0	2.4	1.3	25.2
34	Fabricated metal products	-	7	5	0.8	10.1	0.6	1.1	6.1	20.3	30.1	49.7	0.5	0.6	12.0
	Wickliffe	-	58	19	4.8	67.7	2.6	5.3	31.5	132.1	110.6	246.1	5.0	5.6	69.9
34	Fabricated metal products	-	13	5	0.6	8.6	0.5	1.0	5.7	25.0	36.0	60.4	0.6	(NA)	(NA)
35	Machinery, except electrical	-	25	7	1.3	18.4	0.6	1.7	10.3	31.4	23.7	58.1	1.6	1.1	17.7
	Willoughby	-	114	53	5.4	70.6	3.7	7.5	41.4	152.6	107.6	260.1	5.7	4.6	70.0
34	Fabricated metal products	-	20	18	1.2	14.9	0.9	2.0	10.8	39.1	33.1	70.7	1.7	0.5	7.6
35	Machinery, except electrical	-	46	18	1.1	15.8	0.6	1.7	11.0	27.1	18.6	44.3	1.2	0.8	12.4
	Wilmington	-	29	13	2.7	30.4	2.1	4.2	21.6	70.2	53.7	122.1	3.2	1.7	26.6
	Woodlawn	-	46	24	1.9	24.4	1.2	2.3	13.0	49.7	53.6	102.2	3.7	1.7	24.5
34	Fabricated metal products	-	6	4	0.5	7.3	0.3	0.8	3.6	18.9	11.9	31.3	0.6	(NA)	(NA)
	Wooster	-	43	21	5.7	72.7	4.1	7.7	46.9	164.2	143.5	307.7	16.2	5.3	113.6
34	Fabricated metal products	-	9	5	1.4	18.2	1.1	2.0	11.4	33.6	30.8	64.1	0.9	(NA)	(NA)
	Worthington	-	55	15	2.3	36.4	1.0	1.6	13.1	106.5	64.3	168.9	5.6	1.5	54.9
--	Administrative and auxiliary	-	4	3	0.5	8.6	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Xenia	-	**26**	**11**	**0.7**	**7.9**	**0.6**	**1.1**	**5.1**	**16.7**	**29.0**	**47.5**	**1.1**	**0.9**	**17.3**
	Yellow Springs	-	**6**	**5**	**1.2**	**16.9**	**0.9**	**1.7**	**11.0**	**26.3**	**13.0**	**41.2**	**1.5**	**0.9**	**14.6**
34	Fabricated metal products	-	23	11	1.1	16.7	0.8	1.6	11.0	26.6	42.4	68.9	1.4	1.4	19.4
	Zanesville	-	**67**	**29**	**6.5**	**68.1**	**5.2**	**9.9**	**50.0**	**165.9**	**197.8**	**362.6**	**11.1**	**7.3**	**116.6**

Nota: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
OHIO	17354	1094	5	84	369	854	307	408	2081	705	163	863	55	1081	659	2376	3683	647	468	331	590	531
1 TO 4 EMPLOYEES	5677	335	2	23	127	441	102	56	1037	200	48	194	20	304	113	563	1358	156	133	114	271	80
5 TO 9 EMPLOYEES	2350	152	1	11	45	125	43	44	294	106	31	91	8	165	53	301	584	69	50	46	75	56
10 TO 19 EMPLOYEES	2599	139	-	11	52	113	51	50	267	115	22	100	4	209	90	399	630	65	61	42	98	81
20 TO 49 EMPLOYEES	2840	187	-	10	68	103	48	81	247	120	35	175	10	189	129	492	552	111	48	56	76	103
50 TO 99 EMPLOYEES	1564	104	1	8	26	51	21	71	125	65	13	128	3	96	92	288	229	80	40	26	28	69
100 TO 249 EMPLOYEES	1315	112	1	14	35	18	23	78	77	53	8	103	2	79	82	207	179	72	46	25	33	68
250 TO 499 EMPLOYEES	547	48	-	3	11	1	13	20	15	30	1	43	7	19	49	80	74	40	39	11	7	36
500 TO 999 EMPLOYEES	263	10	-	4	3	2	4	5	12	12	4	14	1	13	26	27	48	29	20	7	1	21
1000 TO 2499 EMPLOYEES	137	7	-	-	2	-	2	3	6	3	1	10	-	5	13	10	22	20	14	4	1	14
2500 EMPLOYEES AND OVER	62	-	-	-	-	-	-	-	1	1	-	5	-	2	12	9	7	5	17	-	-	3
ADAMS COUNTY	29	2	-	-	1	16	-	-	3	-	-	1	-	-	-	1	3	1	1	-	-	-
1 TO 19 EMPLOYEES	24	2	-	-	-	16	-	-	3	-	-	1	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
ALLEN COUNTY	158	16	1	-	5	9	1	3	20	7	5	5	-	9	1	19	31	6	10	1	6	3
1 TO 19 EMPLOYEES	86	6	-	-	2	6	1	2	16	4	4	3	-	4	-	7	20	3	3	-	3	2
20 TO 99 EMPLOYEES	37	8	-	-	3	2	-	-	3	-	-	-	-	5	-	6	7	-	1	-	1	1
100 TO 249 EMPLOYEES	21	2	1	-	-	1	-	1	1	2	-	2	-	-	-	5	3	-	1	-	2	-
250 EMPLOYEES AND OVER	14	-	-	-	-	-	-	-	-	1	1	-	-	-	1	1	1	3	5	1	-	-
ASHLAND COUNTY	81	7	-	-	1	4	-	4	13	2	-	7	-	5	4	2	20	2	3	-	4	3
1 TO 19 EMPLOYEES	47	5	-	-	-	4	-	2	11	-	-	-	-	3	3	1	13	1	1	-	2	1
20 TO 99 EMPLOYEES	17	1	-	-	-	-	-	1	2	2	-	3	-	1	-	-	4	-	-	-	1	2
100 TO 249 EMPLOYEES	7	1	-	-	1	-	-	-	-	-	-	2	-	-	-	-	1	1	1	-	-	-
250 EMPLOYEES AND OVER	10	-	-	-	-	-	-	1	-	-	-	2	-	1	1	1	2	-	1	-	1	-
ASHTABULA COUNTY	167	5	-	2	-	15	3	2	12	12	-	23	6	10	5	26	26	8	4	-	5	3
1 TO 19 EMPLOYEES	90	3	-	2	-	11	2	-	8	4	-	7	2	7	-	13	24	-	3	-	3	1
20 TO 99 EMPLOYEES	41	2	-	-	-	4	-	-	3	3	-	5	4	2	2	9	1	3	-	-	1	2
100 TO 249 EMPLOYEES	19	-	-	-	-	-	-	2	1	4	-	6	-	1	1	2	-	2	-	-	-	-
250 EMPLOYEES AND OVER	17	-	-	-	-	-	1	-	-	1	-	5	-	-	2	2	1	3	1	-	1	-
ATHENS COUNTY	44	5	-	-	1	13	-	-	6	-	1	-	1	7	1	2	3	2	-	-	2	-
1 TO 19 EMPLOYEES	32	4	-	-	-	12	-	-	3	-	1	-	-	6	1	1	1	2	-	-	1	-
20 TO 99 EMPLOYEES	9	1	-	-	1	1	-	-	2	-	-	-	-	1	-	1	1	-	-	-	1	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
AUGLAIZE COUNTY	75	9	-	1	1	4	1	1	10	1	-	4	-	6	2	12	19	1	2	-	1	-
1 TO 19 EMPLOYEES	43	3	-	1	-	3	1	-	7	1	-	1	-	6	-	6	10	1	2	-	1	-
20 TO 99 EMPLOYEES	16	3	-	-	-	-	-	1	3	-	-	-	-	-	-	4	5	-	-	-	-	-
100 TO 249 EMPLOYEES	12	2	-	-	1	1	-	-	-	-	-	2	-	-	2	2	2	-	-	-	-	-
250 EMPLOYEES AND OVER	4	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-
BELMONT COUNTY	64	9	-	1	2	5	1	-	7	2	1	1	-	10	3	9	5	-	1	-	4	3
1 TO 19 EMPLOYEES	42	6	-	1	-	4	1	-	6	2	1	-	-	7	1	3	3	-	-	-	4	3
20 TO 99 EMPLOYEES	10	2	-	-	-	1	-	-	1	-	-	1	-	2	1	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	5	1	-	-	1	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	1	-	-	-	-	-	-	-	-	1	-	4	-	-	1	-	-	-
BROWN COUNTY	23	2	-	-	1	3	-	1	3	-	-	-	2	1	-	-	6	-	1	2	-	1
1 TO 19 EMPLOYEES	15	1	-	-	1	2	-	1	3	-	-	-	-	1	-	-	5	-	-	-	-	1
20 TO 99 EMPLOYEES	5	1	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	2	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
BUTLER COUNTY	238	7	-	-	2	13	7	18	25	8	2	7	-	25	11	39	51	4	3	-	8	8
1 TO 19 EMPLOYEES	136	5	-	-	1	9	1	-	18	4	2	3	-	18	3	22	38	1	2	-	6	3
20 TO 99 EMPLOYEES	59	-	-	-	-	4	4	5	5	4	-	4	-	7	3	10	8	1	-	-	2	2
100 TO 249 EMPLOYEES	18	2	-	-	-	-	-	6	2	-	-	-	-	-	3	2	3	-	-	-	-	-
250 EMPLOYEES AND OVER	25	-	-	-	1	-	2	7	-	-	-	-	-	-	2	5	2	2	1	-	-	3
CARROLL COUNTY	36	-	-	-	-	-	-	3	2	2	-	5	-	10	-	6	4	-	-	1	3	-
1 TO 19 EMPLOYEES	18	-	-	-	-	-	-	-	1	2	-	3	-	4	-	2	3	-	-	-	3	-
20 TO 99 EMPLOYEES	12	-	-	-	-	-	-	2	-	-	-	2	-	4	-	2	1	-	-	1	-	-
100 TO 249 EMPLOYEES	6	-	-	-	-	-	-	1	1	-	-	-	-	2	-	2	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
CHAMPAIGN COUNTY	50	5	-	-	1	1	-	3	5	3	-	3	-	4	-	10	7	4	2	-	1	1
1 TO 19 EMPLOYEES	33	4	-	-	1	1	-	1	4	1	-	1	-	4	-	8	4	1	1	-	1	1
20 TO 99 EMPLOYEES	11	1	-	-	-	-	-	1	1	1	-	1	-	-	-	2	3	-	1	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-
CLARK COUNTY	212	11	-	-	7	9	1	4	19	2	1	8	6	14	9	32	62	4	7	4	8	4
1 TO 19 EMPLOYEES	129	8	-	-	3	6	-	1	11	2	1	7	4	8	4	16	42	3	2	2	6	3
20 TO 99 EMPLOYEES	60	1	-	-	3	3	1	3	6	-	-	1	1	6	2	14	13	1	3	1	-	1
100 TO 249 EMPLOYEES	15	1	-	-	1	-	-	-	1	-	-	-	1	-	3	2	3	-	-	1	2	-
250 EMPLOYEES AND OVER	8	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	4	-	2	-	-	-
CLERMONT COUNTY	83	1	-	1	-	3	1	4	13	5	-	6	-	9	1	6	20	3	3	1	3	3
1 TO 19 EMPLOYEES	68	1	-	-	-	3	1	3	13	5	-	5	-	9	1	1	16	2	2	1	2	3
20 TO 99 EMPLOYEES	11	-	-	1	-	-	-	1	-	-	-	1	-	-	-	5	2	-	1	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-
CLINTON COUNTY	54	3	-	-	1	3	-	1	4	1	1	5	-	2	3	13	9	2	3	2	1	-
1 TO 19 EMPLOYEES	25	3	-	-	-	2	-	1	2	1	1	-	-	-	2	4	6	-	2	1	-	-
20 TO 99 EMPLOYEES	19	-	-	-	1	-	-	-	2	-	-	2	-	2	1	6	2	2	-	-	1	-
100 TO 249 EMPLOYEES	4	-	-	-	-	1	-	-	-	-	-	2	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	1	-	1	1	-	-
COLUMBIANA COUNTY	204	9	-	-	3	15	8	5	23	3	1	2	-	31	12	24	55	3	2	4	3	1
1 TO 19 EMPLOYEES	127	9	-	-	3	14	4	3	15	1	-	-	-	17	6	11	36	-	2	3	3	-
20 TO 99 EMPLOYEES	52	-	-	-	-	1	2	2	6	2	1	1	-	9	5	9	10	2	-	1	-	1
100 TO 249 EMPLOYEES	15	-	-	-	-	-	2	-	2	-	-	-	-	2	1	2	5	1	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	-	-	-	-	-	-	-	-	1	-	3	-	2	4	-	-	-	-	-
COSHOCTON COUNTY	55	3	-	2	3	9	1	2	8	1	1	3	-	4	3	5	5	1	-	-	1	3
1 TO 19 EMPLOYEES	31	2	-	1	1	8	1	-	5	1	-	-	-	4	-	1	5	-	-	-	1	1
20 TO 99 EMPLOYEES	16	1	-	1	1	1	-	1	2	-	1	1	-	-	1	4	-	-	-	-	-	2
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	1	-	-	1	1	-	-	2	-	-	2	-	-	-	-	-	-	-
CRAWFORD COUNTY	104	3	-	-	5	4	1	2	15	-	1	7	-	5	6	16	22	5	4	1	5	2
1 TO 19 EMPLOYEES	61	2	-	-	3	3	1	2	10	-	1	3	-	2	5	10	10	2	2	1	4	-
20 TO 99 EMPLOYEES	25	1	-	-	1	1	-	-	5	-	-	2	-	2	-	5	5	1	1	-	1	-
100 TO 249 EMPLOYEES	8	-	-	-	1	-	-	-	-	-	-	-	-	-	1	1	4	-	-	-	-	1
250 EMPLOYEES AND OVER	10	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	3	2	1	-	-	1
CUYAHOGA COUNTY	3643	148	-	22	91	61	69	71	462	176	33	108	6	104	162	644	877	166	86	82	132	143
1 TO 19 EMPLOYEES	2287	89	-	15	56	50	47	25	370	113	14	63	6	67	71	352	617	70	51	51	100	60
20 TO 99 EMPLOYEES	944	36	-	3	23	11	16	30	71	46	16	35	-	30	58	218	192	55	15	20	29	40
100 TO 249 EMPLOYEES	249	15	-	3	7	-	4	15	15	9	2	8	-	5	17	51	41	20	8	8	2	19
250 EMPLOYEES AND OVER	163	8	-	1	5	-	2	1	6	8	1	2	-	2	16	23	27	21	12	3	1	24
DARKE COUNTY	78	6	1	-	7	5	2	1	8	3	1	6	1	8	4	2	15	2	3	1	1	1
1 TO 19 EMPLOYEES	51	5	1	-	3	4	2	1	5	2	1	2	1	7	4	1	11	-	-	-	1	-
20 TO 99 EMPLOYEES	20	1	-	-	3	1	-	-	3	1	-	4	-	-	-	1	3	-	1	1	-	1
100 TO 249 EMPLOYEES	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-
DEFIANCE COUNTY	54	7	-	-	-	5	-	-	7	-	-	-	-	6	2	14	6	2	4	-	1	-
1 TO 19 EMPLOYEES	32	3	-	-	-	4	-	-	5	-	-	-	-	3	-	9	5	1	1	-	1	-
20 TO 99 EMPLOYEES	13	3	-	-	-	1	-	-	2	-	-	-	-	-	1	2	1	1	2	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	1	-	-	-	-	-	-	-	-	-	-	-	1	1	2	-	-	1	-	-	-
DELAWARE COUNTY	63	2	-	-	2	3	-	1	4	3	1	-	-	9	2	5	17	4	4	1	3	2
1 TO 19 EMPLOYEES	35	-	-	-	1	1	-	-	3	-	1	-	-	7	-	1	13	2	4	-	2	-
20 TO 99 EMPLOYEES	18	1	-	-	1	2	-	-	1	2	-	-	-	2	-	3	3	-	-	-	1	2
100 TO 249 EMPLOYEES	5	1	-	-	-	-	-	1	-	-	-	-	-	-	2	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	2	-	1	-	-
ERIE COUNTY	137	16	-	2	1	5	2	8	15	4	1	9	-	11	6	13	27	4	6	1	4	2
1 TO 19 EMPLOYEES	79	8	-	1	1	4	1	2	13	2	-	4	-	9	1	7	16	-	5	1	3	1
20 TO 99 EMPLOYEES	32	5	-	-	-	1	-	3	1	2	-	2	-	1	2	5	7	1	1	-	-	1
100 TO 249 EMPLOYEES	18	3	-	-	-	-	1	2	1	-	1	1	-	1	1	1	3	2	-	-	1	-
250 EMPLOYEES AND OVER	8	-	-	1	-	-	-	1	-	-	-	2	-	-	2	-	1	1	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
FAIRFIELD COUNTY	101	13	-	1	-	5	-	4	8	-	-	1	1	15	1	14	23	6	-	5	1	3
1 TO 19 EMPLOYEES	55	10	-	-	-	4	-	1	6	-	-	1	-	8	-	5	15	1	-	3	1	-
20 TO 99 EMPLOYEES	20	1	-	1	-	-	-	1	1	-	-	-	-	3	-	6	4	-	-	2	-	1
100 TO 249 EMPLOYEES	17	1	-	-	-	1	-	2	1	-	-	-	-	1	1	2	4	3	-	-	-	1
250 EMPLOYEES AND OVER	9	1	-	-	-	-	-	-	-	-	-	-	1	3	-	1	-	2	-	-	-	1
FAYETTE COUNTY	40	6	-	-	1	6	-	2	4	1	-	7	-	2	1	3	4	2	1	-	-	-
1 TO 19 EMPLOYEES	23	2	-	-	1	3	-	1	3	-	-	3	-	2	1	1	3	2	1	-	-	-
20 TO 99 EMPLOYEES	8	2	-	-	-	2	-	-	1	1	-	2	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	1	-	-	-	1	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	4	1	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-
FRANKLIN COUNTY	1095	85	-	4	35	26	24	24	206	64	5	42	4	59	27	114	156	48	31	37	53	51
1 TO 19 EMPLOYEES	699	35	-	2	30	21	15	13	160	41	2	23	3	33	15	67	103	32	21	22	39	22
20 TO 99 EMPLOYEES	271	31	-	-	5	5	5	9	36	16	3	14	-	20	8	33	35	13	3	11	10	14
100 TO 249 EMPLOYEES	67	11	-	1	-	-	2	2	6	6	-	2	-	3	1	8	10	1	3	-	4	.7
250 EMPLOYEES AND OVER	58	8	-	1	-	-	2	-	4	1	-	3	1	3	3	6	8	2	4	4	-	8
FULTON COUNTY	103	13	-	-	-	2	8	4	12	4	1	4	1	9	8	14	10	1	5	1	4	2
1 TO 19 EMPLOYEES	56	7	-	-	-	1	3	2	11	3	1	1	1	8	3	4	4	-	2	-	4	1
20 TO 99 EMPLOYEES	29	3	-	-	-	-	3	1	1	1	-	3	-	1	4	7	3	-	1	1	-	-
100 TO 249 EMPLOYEES	11	2	-	-	-	1	-	-	-	-	-	-	-	-	-	3	2	1	1	-	-	1
250 EMPLOYEES AND OVER	7	1	-	-	-	-	2	1	-	-	-	-	-	-	1	-	1	-	1	-	-	-
GALLIA COUNTY	24	5	1	-	-	7	1	-	5	-	-	-	-	2	-	1	1	1	-	-	-	-
1 TO 19 EMPLOYEES	16	2	-	-	-	7	1	-	4	-	-	-	-	2	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	3	1	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
GEAUGA COUNTY	151	8	-	-	2	14	2	2	15	4	1	24	-	10	2	18	29	9	-	4	4	3
1 TO 19 EMPLOYEES	101	6	-	-	1	13	2	2	11	4	1	10	-	4	2	15	22	4	-	1	3	-
20 TO 99 EMPLOYEES	33	2	-	-	1	1	-	-	1	-	-	6	-	5	-	3	6	4	-	2	-	2
100 TO 249 EMPLOYEES	10	-	-	-	-	-	-	-	3	-	-	3	-	1	-	-	1	1	-	-	1	-
250 EMPLOYEES AND OVER	7	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	1	-	1
GREENE COUNTY	104	4	-	2	2	10	4	2	10	4	2	5	-	6	4	14	20	5	5	3	1	1
1 TO 19 EMPLOYEES	64	2	-	1	2	7	3	-	6	2	2	1	-	4	1	8	15	4	3	1	1	1
20 TO 99 EMPLOYEES	30	1	-	-	-	3	1	2	4	2	-	3	-	1	1	5	5	-	1	1	-	-
100 TO 249 EMPLOYEES	7	1	-	1	-	-	-	-	-	-	-	-	-	1	1	1	-	1	1	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-
GUERNSEY COUNTY	55	-	-	-	-	3	-	-	3	1	-	15	-	11	1	3	13	2	1	-	1	1
1 TO 19 EMPLOYEES	29	-	-	-	-	2	-	-	1	-	-	5	-	9	-	2	9	-	1	-	-	-
20 TO 99 EMPLOYEES	16	-	-	-	-	1	-	-	2	-	-	8	-	1	-	-	3	-	-	-	-	1
100 TO 249 EMPLOYEES	6	-	-	-	-	-	-	-	-	1	-	2	-	-	1	1	-	-	-	-	1	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2	-	-	-	-
HAMILTON COUNTY	1709	128	-	11	48	40	39	68	304	98	18	57	9	59	47	196	284	67	27	39	87	83
1 TO 19 EMPLOYEES	1006	58	-	7	23	28	27	26	215	51	13	34	5	41	19	104	185	29	16	22	65	38
20 TO 99 EMPLOYEES	456	35	-	2	13	10	7	28	67	23	3	15	1	16	21	68	62	23	6	12	17	27
100 TO 249 EMPLOYEES	144	15	-	1	5	2	3	10	14	12	1	6	1	2	4	15	22	8	1	5	4	13
250 EMPLOYEES AND OVER	103	20	-	1	7	-	2	4	8	12	1	2	2	-	3	9	15	7	4	-	1	5
HANCOCK COUNTY	92	16	-	1	2	1	-	3	8	4	4	12	-	5	1	7	17	2	1	3	1	4
1 TO 19 EMPLOYEES	50	8	-	1	-	-	-	3	7	2	2	3	-	4	-	4	14	-	-	2	-	-
20 TO 99 EMPLOYEES	27	6	-	-	1	1	-	-	1	2	2	4	-	1	-	1	3	-	-	1	1	3
100 TO 249 EMPLOYEES	10	2	-	-	1	-	-	-	-	-	-	3	-	-	1	2	-	-	1	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	2	-	-	-	1
HARDIN COUNTY	51	5	-	-	-	7	1	1	4	2	1	-	-	4	1	6	6	2	8	1	2	-
1 TO 19 EMPLOYEES	30	5	-	-	-	3	1	-	3	1	1	-	-	3	1	4	5	-	3	-	-	-
20 TO 99 EMPLOYEES	14	-	-	-	-	4	-	-	1	-	-	-	-	1	-	1	1	1	3	1	1	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	1	-	1	-	-	-	-	-	1	-	-	1	-	1	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
MARRISON COUNTY	23	1	-	-	-	11	1	1	2	1	-	-	-	2	-	1	1	1	1	-	-	-
1 TO 19 EMPLOYEES	17	1	-	-	-	10	-	1	1	1	-	-	-	-	-	1	1	1	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	1	1	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
HENRY COUNTY	55	8	1	-	-	3	-	1	2	2	1	5	-	4	3	11	10	-	2	-	1	1
1 TO 19 EMPLOYEES	36	4	1	-	-	3	-	1	2	2	1	1	-	4	1	6	9	-	-	-	-	1
20 TO 99 EMPLOYEES	13	3	-	-	-	-	-	-	-	-	-	3	-	-	2	3	1	-	1	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1	-
250 EMPLOYEES AND OVER	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
HIGHLAND COUNTY	37	3	-	-	3	8	1	-	7	1	-	1	1	-	2	6	2	-	-	1	1	-
1 TO 19 EMPLOYEES	17	2	-	-	1	7	-	-	2	1	-	-	-	-	-	3	1	-	-	-	-	-
20 TO 99 EMPLOYEES	10	-	-	-	1	1	1	-	4	-	-	-	-	-	2	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	1	-
250 EMPLOYEES AND OVER	6	1	-	-	-	-	-	-	-	-	-	1	1	-	-	1	1	-	-	1	-	-
HOCKING COUNTY	34	1	-	-	-	17	-	1	2	-	1	1	-	5	1	2	1	-	-	-	1	1
1 TO 19 EMPLOYEES	22	1	-	-	-	16	-	-	1	-	-	-	-	1	-	-	1	-	-	-	1	1
20 TO 99 EMPLOYEES	6	-	-	-	-	1	-	-	1	-	1	-	-	1	1	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	1	-	-	-	-	-	2	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
HOLMES COUNTY	74	11	-	1	1	28	1	-	2	1	-	6	2	3	1	3	9	1	2	1	1	-
1 TO 19 EMPLOYEES	43	6	-	-	-	17	-	-	2	1	-	2	1	2	1	1	7	-	1	1	1	-
20 TO 99 EMPLOYEES	24	5	-	-	1	10	-	-	-	-	-	1	1	1	-	2	1	1	1	-	-	-
100 TO 249 EMPLOYEES	6	-	-	1	-	1	1	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
HURON COUNTY	102	7	-	2	4	5	2	1	14	4	-	8	-	9	3	7	17	3	7	5	3	1
1 TO 19 EMPLOYEES	52	2	-	-	1	3	-	-	10	2	-	1	-	7	1	4	12	2	3	2	2	-
20 TO 99 EMPLOYEES	27	1	-	1	2	1	1	1	3	2	-	4	-	2	2	3	3	-	-	1	-	-
100 TO 249 EMPLOYEES	11	3	-	1	-	1	-	-	-	-	-	2	-	-	-	-	-	-	2	1	1	-
250 EMPLOYEES AND OVER	12	1	-	-	1	-	1	-	1	-	-	1	-	-	-	-	2	1	2	1	-	1
JACKSON COUNTY	54	3	-	-	1	19	1	-	2	2	-	4	-	13	5	-	2	-	-	-	1	1
1 TO 19 EMPLOYEES	36	-	-	-	-	17	-	-	1	2	-	2	-	9	3	-	1	-	-	-	1	-
20 TO 99 EMPLOYEES	11	1	-	-	-	2	-	-	1	-	-	-	-	4	2	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	4	1	-	-	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-
JEFFERSON COUNTY	68	6	-	-	-	10	1	3	9	3	2	-	-	12	7	6	4	1	1	-	2	1
1 TO 19 EMPLOYEES	40	3	-	-	-	9	1	1	6	2	2	-	-	6	1	2	4	-	1	-	2	-
20 TO 99 EMPLOYEES	18	3	-	-	-	1	-	2	2	1	-	-	-	5	-	2	-	1	-	-	-	1
100 TO 249 EMPLOYEES	7	-	-	-	-	-	-	-	1	-	-	-	-	1	3	2	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
KNOX COUNTY	42	3	-	-	1	3	-	2	7	-	1	3	-	4	-	7	5	4	2	-	-	-
1 TO 19 EMPLOYEES	25	2	-	-	-	1	-	1	6	-	1	3	-	2	-	5	2	2	-	-	-	-
20 TO 99 EMPLOYEES	9	1	-	-	-	1	-	-	1	-	-	-	-	1	-	1	1	2	1	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	1	-	1	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-
LAKE COUNTY	486	4	-	2	2	8	4	5	30	22	4	23	-	20	15	80	197	21	14	10	14	11
1 TO 19 EMPLOYEES	315	2	-	-	1	8	4	2	26	11	2	10	-	16	6	40	149	13	9	7	8	1
20 TO 99 EMPLOYEES	121	1	-	1	-	-	-	2	2	6	2	11	-	2	8	27	39	5	4	2	4	5
100 TO 249 EMPLOYEES	35	1	-	-	1	-	-	-	2	3	-	1	-	2	1	10	5	3	1	-	1	4
250 EMPLOYEES AND OVER	15	-	-	1	-	-	-	1	-	2	-	1	-	-	-	3	4	-	-	1	1	1
LAWRENCE COUNTY	52	-	-	-	-	2	-	-	6	3	-	3	-	15	3	4	10	-	2	2	1	1
1 TO 19 EMPLOYEES	36	-	-	-	-	2	-	-	5	-	-	3	-	10	1	2	8	-	2	2	-	1
20 TO 99 EMPLOYEES	8	-	-	-	-	-	-	-	1	-	-	-	-	4	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	2	-	-	-	1	-	1	-	-	-	-	1	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-
LICKING COUNTY	133	8	-	-	2	11	-	4	18	5	2	13	-	6	6	11	23	6	6	1	6	5
1 TO 19 EMPLOYEES	87	5	-	-	2	8	-	-	16	4	1	6	-	2	3	5	21	2	4	-	4	4
20 TO 99 EMPLOYEES	26	2	-	-	-	3	-	2	1	1	1	3	-	3	1	4	1	2	-	1	1	-
100 TO 249 EMPLOYEES	14	1	-	-	-	-	-	2	1	-	-	4	-	-	1	2	1	1	-	-	1	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	2	-	-	1
LOGAN COUNTY	54	4	-	-	1	3	1	-	7	1	1	3	-	2	3	11	6	5	4	-	2	-
1 TO 19 EMPLOYEES	34	4	-	-	-	2	1	-	4	1	-	1	-	2	-	9	3	2	3	-	2	-
20 TO 99 EMPLOYEES	9	-	-	-	1	1	-	-	2	-	1	-	-	-	2	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	-	-	-	-	-	1	-	-	2	-	-	1	2	-	1	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
LORAIN COUNTY	341	26	-	-	4	6	2	1	30	8	3	21	-	19	20	67	77	16	10	8	16	7
1 TO 19 EMPLOYEES	217	18	-	-	2	6	2	-	25	4	2	11	-	13	10	33	60	10	2	4	12	3
20 TO 99 EMPLOYEES	70	7	-	-	-	-	-	1	3	2	1	5	-	5	2	21	12	5	-	1	3	2
100 TO 249 EMPLOYEES	28	1	-	-	2	-	-	-	1	-	-	5	-	1	4	6	1	-	3	2	1	1
250 EMPLOYEES AND OVER	26	-	-	-	-	-	-	-	1	2	-	-	-	-	4	7	4	1	5	1	-	1
LUCAS COUNTY	767	32	-	4	19	23	11	17	109	28	14	30	2	42	31	112	162	22	28	19	25	37
1 TO 19 EMPLOYEES	495	20	-	2	15	18	7	6	94	16	7	18	-	28	9	61	122	15	12	15	19	11
20 TO 99 EMPLOYEES	181	5	-	-	4	4	4	7	13	7	3	11	2	9	11	35	33	5	10	2	4	12
100 TO 249 EMPLOYEES	46	6	-	1	-	-	-	4	1	3	2	1	-	2	5	9	2	1	1	1	1	6
250 EMPLOYEES AND OVER	45	1	-	1	-	1	-	-	1	2	2	-	-	3	6	7	5	1	5	1	1	8
MADISON COUNTY	28	2	-	1	-	1	-	-	6	-	-	2	-	3	3	1	4	1	1	1	-	2
1 TO 19 EMPLOYEES	13	2	-	-	-	1	-	-	4	-	-	-	-	2	-	1	1	-	-	-	-	2
20 TO 99 EMPLOYEES	10	-	-	1	-	-	-	-	2	-	-	1	-	-	2	-	2	-	1	1	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
MAHONING COUNTY	357	25	-	2	10	8	15	4	31	8	2	19	1	33	21	61	74	8	9	7	12	7
1 TO 19 EMPLOYEES	221	14	-	2	5	6	11	-	27	6	2	12	1	19	5	32	52	3	4	6	11	3
20 TO 99 EMPLOYEES	91	8	-	-	1	2	2	2	3	2	-	5	-	10	8	24	17	2	2	1	-	2
100 TO 249 EMPLOYEES	21	2	-	-	4	-	-	2	-	-	-	1	-	2	3	3	2	-	1	-	1	-
250 EMPLOYEES AND OVER	24	1	-	-	-	-	2	-	1	-	-	1	-	2	5	2	3	3	2	-	-	2
MARION COUNTY	100	12	-	-	3	1	-	2	10	5	2	4	-	6	10	10	26	2	3	-	3	1
1 TO 19 EMPLOYEES	56	7	-	-	1	1	-	1	9	2	1	1	-	2	5	3	19	-	1	-	3	-
20 TO 99 EMPLOYEES	27	2	-	-	2	-	-	1	-	2	-	2	-	4	4	6	2	1	-	-	-	1
100 TO 249 EMPLOYEES	8	2	-	-	-	-	-	-	1	-	1	-	-	-	-	-	2	-	2	-	-	-
250 EMPLOYEES AND OVER	9	1	-	-	-	-	-	-	-	1	-	1	-	-	1	1	3	1	-	-	-	-
MEDINA COUNTY	195	9	-	-	2	6	1	4	20	12	3	12	-	15	9	32	37	7	3	11	8	4
1 TO 19 EMPLOYEES	118	5	-	-	2	3	-	2	15	8	1	5	-	9	3	20	26	3	2	9	3	2
20 TO 99 EMPLOYEES	59	3	-	-	-	3	1	2	4	3	2	6	-	4	5	8	9	2	1	1	3	2
100 TO 249 EMPLOYEES	12	-	-	-	-	-	-	-	1	1	-	-	-	2	-	2	2	1	-	1	2	-
250 EMPLOYEES AND OVER	6	1	-	-	-	-	-	-	-	-	-	1	-	-	1	2	-	1	-	-	-	-
MEIGS COUNTY	15	2	-	-	-	6	-	-	2	-	-	-	-	-	-	1	1	1	2	-	-	-
1 TO 19 EMPLOYEES	10	1	-	-	-	5	-	-	2	-	-	-	-	-	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	5	1	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-
MERCER COUNTY	63	10	-	-	1	3	3	1	9	-	-	2	-	8	2	9	10	-	3	1	-	1
1 TO 19 EMPLOYEES	43	5	-	-	-	3	2	1	7	-	-	2	-	6	1	6	6	-	2	1	-	1
20 TO 99 EMPLOYEES	14	4	-	-	1	-	-	-	1	-	-	-	-	2	-	3	3	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-
MIAMI COUNTY	177	8	-	2	2	9	4	9	14	4	1	6	-	14	8	15	46	13	8	3	9	2
1 TO 19 EMPLOYEES	97	5	-	-	1	5	3	2	8	3	1	3	-	9	3	12	29	3	1	2	7	-
20 TO 99 EMPLOYEES	47	1	-	-	1	3	-	4	6	1	-	2	-	5	4	3	7	4	3	1	1	1
100 TO 249 EMPLOYEES	17	-	-	1	-	1	-	2	-	-	-	1	-	-	-	-	5	4	2	-	1	-
250 EMPLOYEES AND OVER	16	2	-	1	-	-	1	1	-	-	-	-	-	-	1	-	5	2	2	-	-	1
MONROE COUNTY	17	-	-	-	1	7	-	-	3	-	-	1	-	2	3	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	14	-	-	-	-	7	-	-	3	-	-	1	-	2	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
MONTGOMERY COUNTY	962	47	-	2	17	24	17	26	112	37	6	38	-	29	30	124	299	44	21	20	34	35
1 TO 19 EMPLOYEES	592	28	-	2	14	14	12	10	84	23	4	18	-	14	9	76	192	26	12	15	28	11
20 TO 99 EMPLOYEES	256	8	-	-	3	9	5	7	20	10	1	14	-	10	15	36	84	11	3	4	6	10
100 TO 249 EMPLOYEES	68	10	-	-	-	1	-	6	3	1	1	3	-	5	4	9	13	2	1	1	-	8
250 EMPLOYEES AND OVER	46	1	-	-	-	-	-	3	5	3	-	3	-	-	2	3	10	5	5	-	-	6
MORGAN COUNTY	19	-	-	-	-	9	2	-	2	-	1	-	-	1	-	1	2	-	-	-	-	1
1 TO 19 EMPLOYEES	13	-	-	-	-	8	-	-	2	-	1	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
MORROW COUNTY	23	2	-	-	-	1	-	1	5	1	-	3	-	3	-	1	4	1	1	-	-	-
1 TO 19 EMPLOYEES	16	2	-	-	-	1	-	-	5	-	-	1	-	3	-	1	3	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-

See footnotes at end of table.

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State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
MUSKINGUM COUNTY	98	12	-	-	-	14	-	1	8	2	1	3	-	16	4	4	19	5	1	2	4	2
1 TO 19 EMPLOYEES	57	2	-	-	-	13	-	-	7	1	1	2	-	7	1	4	14	1	-	2	2	-
20 TO 99 EMPLOYEES	26	9	-	-	-	1	-	-	-	1	-	1	-	6	-	-	3	1	-	-	2	2
100 TO 249 EMPLOYEES	8	1	-	-	-	-	-	1	1	-	-	-	-	2	-	-	2	1	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	2	1	-	-	-
NOBLE COUNTY	11	-	-	-	1	5	-	-	1	-	-	-	-	2	-	1	-	-	1	-	-	-
1 TO 19 EMPLOYEES	8	-	-	-	1	4	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
OTTAWA COUNTY	75	13	-	1	3	5	-	1	8	-	-	2	-	8	3	6	17	-	7	1	-	-
1 TO 19 EMPLOYEES	54	11	-	-	3	3	-	-	8	-	-	-	-	3	1	3	16	-	5	1	-	-
20 TO 99 EMPLOYEES	10	2	-	-	-	2	-	1	-	-	-	-	-	-	1	2	1	-	1	-	-	-
100 TO 249 EMPLOYEES	9	-	-	1	-	-	-	-	-	-	-	2	-	5	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
PAULDING COUNTY	31	5	-	-	-	1	1	-	4	-	-	1	1	5	-	4	5	1	3	-	-	-
1 TO 19 EMPLOYEES	21	4	-	-	-	1	1	-	4	-	-	-	1	2	-	3	3	1	1	-	-	-
20 TO 99 EMPLOYEES	6	1	-	-	-	-	-	-	-	-	-	1	-	1	-	1	1	-	1	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
PERRY COUNTY	42	4	-	-	-	7	-	-	3	-	1	-	-	15	1	4	5	-	-	-	2	-
1 TO 19 EMPLOYEES	24	4	-	-	-	7	-	-	3	-	-	-	-	5	-	1	2	-	-	-	2	-
20 TO 99 EMPLOYEES	10	-	-	-	-	-	-	-	-	-	1	-	-	5	-	2	2	-	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	-	-	-	-	-	-	-	-	-	-	4	1	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
PICKAWAY COUNTY	28	4	-	-	-	2	-	2	4	2	-	4	-	2	-	3	2	1	-	-	1	1
1 TO 19 EMPLOYEES	13	1	-	-	-	2	-	-	3	1	-	2	-	1	-	1	1	-	-	-	1	-
20 TO 99 EMPLOYEES	5	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	1
100 TO 249 EMPLOYEES	6	1	-	-	-	-	-	2	-	1	-	1	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	-	-	-
PIKE COUNTY	26	2	-	-	-	18	-	-	1	1	-	1	-	-	-	2	-	-	1	-	-	-
1 TO 19 EMPLOYEES	20	2	-	-	-	17	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-
PORTAGE COUNTY	194	5	-	3	2	4	2	4	12	4	-	44	-	13	3	15	67	5	4	-	3	4
1 TO 19 EMPLOYEES	111	5	-	1	-	3	2	1	10	3	-	14	-	7	1	8	50	2	2	-	2	-
20 TO 99 EMPLOYEES	64	-	-	2	2	1	-	1	1	1	-	22	-	5	1	6	15	1	1	-	1	4
100 TO 249 EMPLOYEES	12	-	-	-	-	-	-	2	1	-	-	6	-	1	-	-	1	-	1	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	1	2	-	-	-	-
PREBLE COUNTY	59	6	-	-	5	6	-	1	3	3	-	4	-	7	1	4	14	1	1	-	1	2
1 TO 19 EMPLOYEES	43	5	-	-	3	4	-	-	2	2	-	3	-	6	1	1	12	1	1	-	1	1
20 TO 99 EMPLOYEES	10	1	-	-	2	2	-	-	1	1	-	-	-	-	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	1	-	-	-	-	-	1	-	1	-	-	-	-	-	1
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-
PUTNAM COUNTY	47	6	-	-	-	6	1	-	7	1	-	2	-	7	-	5	8	1	2	-	-	1
1 TO 19 EMPLOYEES	35	3	-	-	-	5	1	-	5	1	-	2	-	6	-	4	6	-	1	-	-	1
20 TO 99 EMPLOYEES	7	1	-	-	-	1	-	-	1	-	-	-	-	1	-	1	1	-	1	-	-	-
100 TO 249 EMPLOYEES	4	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
RICHLAND COUNTY	207	9	-	1	3	7	6	4	27	4	1	8	2	12	5	38	42	15	6	3	10	4
1 TO 19 EMPLOYEES	118	6	-	-	3	5	5	2	21	3	1	1	2	7	-	11	32	5	3	1	8	2
20 TO 99 EMPLOYEES	58	3	-	-	-	2	-	1	4	1	-	5	-	4	2	22	5	4	2	-	1	2
100 TO 249 EMPLOYEES	15	-	-	1	-	-	1	1	1	-	-	1	-	-	-	4	3	2	1	-	-	-
250 EMPLOYEES AND OVER	16	-	-	-	-	-	-	-	1	-	-	1	-	1	3	1	2	4	-	2	1	-
ROSS COUNTY	61	4	-	-	1	22	-	2	7	3	-	2	1	4	1	3	3	4	2	-	1	1
1 TO 19 EMPLOYEES	42	3	-	-	1	19	-	-	6	2	-	-	-	3	1	-	2	4	-	-	1	-
20 TO 99 EMPLOYEES	11	1	-	-	-	3	-	-	1	1	-	1	-	1	-	2	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	2	-	-	-	1	1	-	-	1	-	-	1	-	-	-
SANDUSKY COUNTY	114	9	-	-	4	2	1	2	10	5	1	9	-	12	1	14	25	7	4	2	5	1
1 TO 19 EMPLOYEES	61	3	-	-	1	2	1	1	7	4	1	3	-	2	-	6	19	3	1	2	5	-
20 TO 99 EMPLOYEES	30	2	-	-	1	-	-	-	2	1	-	3	-	6	-	7	6	1	-	-	-	1
100 TO 249 EMPLOYEES	17	2	-	-	2	-	-	1	1	-	-	3	-	4	1	1	-	-	2	-	-	-
250 EMPLOYEES AND OVER	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
SCIOTO COUNTY	69	8	-	1	-	20	1	1	5	3	1	1	1	9	5	1	4	1	1	-	5	1
1 TO 19 EMPLOYEES	52	4	-	-	-	19	1	1	4	2	-	1	1	6	1	1	4	1	1	-	5	-
20 TO 99 EMPLOYEES	10	3	-	-	-	1	-	-	1	-	1	-	-	2	1	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	4	1	-	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-
SENECA COUNTY	81	7	-	-	1	2	1	2	11	3	2	4	-	13	9	3	16	2	1	-	1	3
1 TO 19 EMPLOYEES	43	2	-	-	1	1	1	-	8	3	2	1	-	7	4	2	9	-	-	-	-	2
20 TO 99 EMPLOYEES	18	4	-	-	-	-	-	2	2	-	-	2	-	2	2	1	2	-	-	-	-	1
100 TO 249 EMPLOYEES	9	1	-	-	-	1	-	-	1	-	-	1	-	1	1	-	2	-	-	-	1	-
250 EMPLOYEES AND OVER	11	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	3	2	1	-	-	-
SHELBY COUNTY	89	5	-	1	1	7	-	1	5	-	2	6	1	5	7	10	29	-	4	1	1	3
1 TO 19 EMPLOYEES	47	3	-	1	-	5	-	-	4	-	2	2	-	3	1	7	15	-	1	1	1	1
20 TO 99 EMPLOYEES	28	2	-	-	-	1	-	1	-	-	-	1	1	2	3	2	11	-	2	-	-	2
100 TO 249 EMPLOYEES	6	-	-	-	1	1	-	-	-	-	-	3	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	8	-	-	-	-	-	-	-	1	-	-	-	-	-	2	1	3	-	1	-	-	-
STARK COUNTY	567	50	-	2	15	18	9	18	58	20	6	28	-	41	28	98	100	18	14	9	20	15
1 TO 19 EMPLOYEES	350	30	-	1	11	14	6	8	43	10	5	13	-	26	10	51	76	5	13	5	17	6
20 TO 99 EMPLOYEES	143	13	-	1	3	3	1	8	10	9	-	10	-	10	5	30	17	12	-	2	3	6
100 TO 249 EMPLOYEES	30	3	-	-	1	1	1	2	4	1	-	1	-	4	4	5	1	-	-	2	-	-
250 EMPLOYEES AND OVER	44	4	-	-	-	-	1	-	1	-	1	4	-	1	9	12	6	1	1	-	-	3
SUMMIT COUNTY	867	45	-	5	19	13	12	13	105	37	4	82	-	36	22	124	249	29	14	13	22	23
1 TO 19 EMPLOYEES	544	29	-	3	13	11	6	6	80	19	2	35	-	22	12	75	170	17	9	6	18	11
20 TO 99 EMPLOYEES	234	9	-	1	6	2	4	5	23	12	2	30	-	10	8	32	60	11	2	6	4	7
100 TO 249 EMPLOYEES	53	4	-	1	-	-	2	-	1	3	-	9	-	3	1	12	14	-	1	1	-	1
250 EMPLOYEES AND OVER	36	3	-	-	-	-	-	2	1	3	-	8	-	1	1	5	5	1	2	-	-	4
TRUMBULL COUNTY	263	14	-	-	3	19	5	-	21	5	-	11	1	23	22	66	44	9	12	3	-	5
1 TO 19 EMPLOYEES	141	10	-	-	3	17	4	-	15	4	-	3	-	16	6	22	29	2	3	3	-	4
20 TO 99 EMPLOYEES	78	3	-	-	-	2	1	-	4	1	-	7	1	4	7	30	11	3	4	-	-	-
100 TO 249 EMPLOYEES	22	1	-	-	-	-	-	-	2	-	-	-	-	3	1	10	1	2	1	-	-	1
250 EMPLOYEES AND OVER	22	-	-	-	-	-	-	-	-	-	-	1	-	-	8	4	3	2	4	-	-	-
TUSCARAWAS COUNTY	189	21	-	2	4	23	4	3	11	9	1	14	2	31	6	17	30	1	-	3	5	2
1 TO 19 EMPLOYEES	109	15	-	1	1	18	-	2	8	5	-	4	2	10	1	13	22	-	-	2	3	2
20 TO 99 EMPLOYEES	56	6	-	1	3	4	3	-	2	3	1	7	-	16	1	1	5	1	-	-	2	-
100 TO 249 EMPLOYEES	15	-	-	-	-	-	1	1	1	1	-	3	-	4	2	-	1	-	-	1	-	-
250 EMPLOYEES AND OVER	9	-	-	-	-	1	-	-	-	-	-	-	-	1	2	3	2	-	-	-	-	-
UNION COUNTY	39	2	-	-	1	2	-	-	3	4	-	6	-	3	1	4	4	1	3	1	1	3
1 TO 19 EMPLOYEES	18	-	-	-	-	2	-	-	2	3	-	-	-	3	-	2	3	-	2	-	1	-
20 TO 99 EMPLOYEES	11	1	-	-	1	-	-	-	1	-	-	5	-	-	1	1	-	-	-	-	-	1
100 TO 249 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	1	-	1	1	-	1
VAN WERT COUNTY	50	5	-	-	2	2	1	2	5	2	2	-	-	8	-	11	5	2	2	-	-	1
1 TO 19 EMPLOYEES	28	3	-	-	1	2	1	-	4	2	1	-	-	6	-	5	2	1	-	-	-	-
20 TO 99 EMPLOYEES	13	1	-	-	1	-	-	1	1	-	1	-	-	1	-	2	3	1	-	-	-	1
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	1	-	-	-	-	-	1	-	2	-	-	2	-	-	-
VINTON COUNTY	21	-	-	-	-	18	-	-	-	1	-	-	-	-	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	16	-	-	-	-	15	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	3	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
WARREN COUNTY	97	2	-	1	-	10	6	12	5	3	3	6	2	11	1	7	19	5	2	1	1	-
1 TO 19 EMPLOYEES	57	1	-	-	-	4	4	5	2	3	2	2	2	9	-	1	16	2	2	1	1	-
20 TO 99 EMPLOYEES	33	1	-	1	-	6	-	5	3	-	1	3	-	2	1	5	3	2	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	1	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
WASHINGTON COUNTY	83	8	-	-	1	16	1	-	7	8	6	2	-	13	4	8	5	1	-	1	2	-
1 TO 19 EMPLOYEES	55	6	-	-	1	15	-	-	5	3	4	1	-	11	1	2	3	1	-	-	2	-
20 TO 99 EMPLOYEES	14	1	-	-	-	1	-	-	2	2	2	-	-	1	1	2	2	-	-	-	-	-
100 TO 249 EMPLOYEES	8	1	-	-	-	-	-	-	-	1	-	-	-	1	1	3	-	-	-	1	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	1	-	-	2	-	1	-	-	1	1	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufsctures; 22--textile mill products; 23--spparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glsss producta; 33--primary metsl industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--trsnsportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
WAYNE COUNTY	180	25	-	-	4	24	2	6	11	7	4	12	1	12	8	15	28	2	8	4	5	2
1 TO 19 EMPLOYEES	96	14	-	-	3	17	1	-	8	3	3	6	-	6	2	7	18	1	2	2	3	-
20 TO 99 EMPLOYEES	51	7	-	-	1	6	1	3	2	3	1	5	1	5	3	4	6	1	1	-	-	1
100 TO 249 EMPLOYEES	16	3	-	-	-	1	-	1	1	-	-	-	-	1	1	1	3	-	2	-	1	1
250 EMPLOYEES AND OVER	17	1	-	-	-	-	-	2	-	1	-	1	-	-	2	3	1	-	3	2	1	-
WILLIAMS COUNTY	98	8	1	-	-	6	6	2	4	3	-	6	-	6	5	11	20	4	8	2	3	3
1 TO 19 EMPLOYEES	48	4	1	-	-	5	1	2	2	1	-	2	-	5	3	5	12	-	2	-	1	2
20 TO 99 EMPLOYEES	28	3	-	-	-	1	3	-	2	2	-	2	-	1	-	6	3	2	-	2	1	-
100 TO 249 EMPLOYEES	12	-	-	-	-	-	2	-	-	-	-	1	-	-	2	-	1	1	4	-	-	1
250 EMPLOYEES AND OVER	10	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	4	1	2	-	1	-
WOOD COUNTY	162	19	-	1	-	10	3	4	6	8	2	12	-	16	5	21	36	4	7	1	4	3
1 TO 19 EMPLOYEES	100	11	-	-	-	6	3	2	5	6	2	2	-	11	3	12	27	-	5	1	3	1
20 TO 99 EMPLOYEES	38	6	-	1	-	3	-	2	1	1	-	6	-	2	2	5	6	1	-	-	1	1
100 TO 249 EMPLOYEES	15	1	-	-	-	1	-	-	-	1	-	1	-	2	-	4	3	2	-	-	-	-
250 EMPLOYEES AND OVER	9	1	-	-	-	-	-	-	-	-	-	3	-	1	-	-	-	1	2	-	-	1
WYANDOT COUNTY	51	3	-	-	-	7	1	-	5	2	-	8	-	9	1	3	4	2	2	-	3	1
1 TO 19 EMPLOYEES	30	2	-	-	-	6	-	-	4	2	-	1	-	6	-	3	2	-	-	-	3	1
20 TO 99 EMPLOYEES	12	1	-	-	-	1	1	-	1	-	-	2	-	2	1	-	2	-	1	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	3	-	1	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	1	1	-	-	-

Note: Data on number of estsblishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Locstion of Manufacturing Plants dsta series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

Oklahoma

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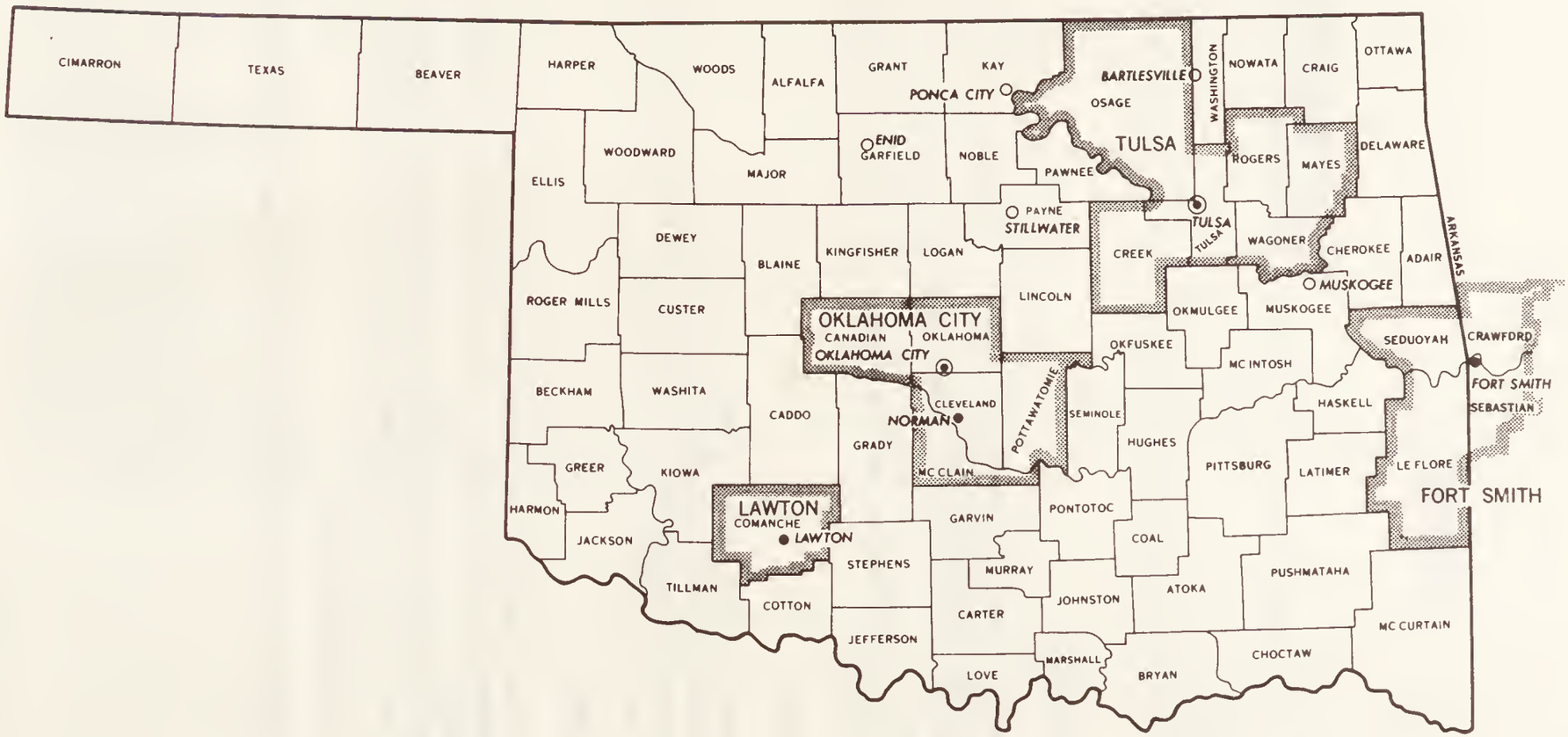
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LEGEND

- ◉ Places of 100,000 or more inhabitants
- ● Places of 50,000 to 100,000 inhabitants
- ○ Places of 25,000 to 50,000 inhabitants outside SMSA's

Standard Metropolitan Statistical Areas (SMSA's)

SCALE
0 10 20 30 40 50 MILES

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 164.4 thousand persons were employed in Oklahoma's manufacturing establishments. This figure represented an increase of 15 percent from the 1972 figure of 142.7 thousand workers.

The total value added by manufacture for the State amounted to $4,662 million in 1977, an increase of approximately 105 percent from the 1972 figure of $2,270 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were machinery, except electrical; fabricated metal products; food and kindred products; and transportation equipment. They accounted for approximately 51 percent of the State's 1977 employment. The order has shifted from 1972 when industry groups machinery, except electrical; food and kindred products; fabricated metal products; and electric and electronic equipment accounted for approximately 43 percent of the State's employment.

The most important counties in the State ranked by employment were Tulsa, Oklahoma, Washington, and Kay. They accounted for approximately 60 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Oklahoma, Tulsa, Washington, and Kay accounted for approximately 59 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Oklahoma:						
1977	164.4	2,050.9	150.2	1,786.3	14.2	264.6
1972	142.7	1,187.9	128.9	1,020.7	13.8	167.2
1967	117.7	764.2	105.0	648.0	12.7	116.2
1963	97.7	551.7	87.3	465.1	10.4	86.6
STANDARD METROPOLITAN STATISTICAL AREAS						
Fort Smith, Ark.-Okla.:						
1977	23.3	230.4	22.9	223.5	.4	6.9
1972	18.8	120.3	18.6	117.7	.2	2.6
1967	14.1	64.6	(D)	(D)	(D)	(D)
1963	12.3	47.6	(D)	(D)	(D)	(D)
Lawton:						
1977	.5	4.6	.5	4.6	-	-
1972	1.5	8.9	1.5	8.9	-	-
1967	1.2	5.8	1.2	5.8	-	-
1963	1.0	4.5	1.0	4.5	-	-
Oklahoma City:						
1977	43.1	548.2	40.7	505.9	2.4	42.3
1972	41.0	347.1	38.4	319.5	2.6	27.6
1967	29.3	185.1	27.9	174.5	1.4	10.6
1963	27.2	153.1	26.1	145.0	1.1	8.2
Tulsa:						
1977	58.9	774.3	53.4	684.2	5.5	90.1
1972	44.9	401.2	41.8	365.2	3.1	36.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
	OKLAHOMA														
1977 CENSUS.	3 818	1 067	164.4	2 050.9	110.4	214.3	1 164.3	4 662.3	8 048.4	12 564.5	485.8	.84	100	100	19 596.9
1976 ASM....	(NA)	(NA)	150.1	1 743.0	100.1	194.8	953.1	3 607.7	6 486.0	10 126.0	410.6	.80	91	96	18 753.0
1975 ASM....	(NA)	(NA)	151.0	1 583.6	97.9	187.6	852.2	3 445.5	5 496.4	8 889.5	358.3	.83	92	94	18 302.2
1974 ASM....	(NA)	(NA)	153.5	1 427.7	104.6	201.3	821.5	3 108.2	5 005.6	7 945.2	339.2	.77	93	102	19 844.8
1973 ASM....	(NA)	(NA)	156.5	1 374.6	104.0	200.1	754.4	2 597.3	3 837.7	6 336.1	253.5	.79	95	102	19 897.9
1972 CENSUS.	3 042	897	142.7	1 187.9	95.7	186.1	659.0	2 270.1	3 132.0	5 348.1	223.8	.75	87	98	19 028.7
1971 ASM....	(NA)	(NA)	132.2	1 024.0	88.2	173.5	567.4	1 834.4	2 719.0	4 553.7	158.4	.72	80	94	18 363.1
1970 ASM....	(NA)	(NA)	131.0	974.4	89.1	176.9	552.5	1 766.3	2 561.8	4 293.0	146.1	.68	80	99	19 217.2
1969 ASM....	(NA)	(NA)	129.2	912.0	87.3	171.2	513.8	1 595.4	2 314.2	3 872.0	130.9	.64	79	103	20 035.5
1968 ASM....	(NA)	(NA)	123.5	835.4	82.6	163.8	466.4	1 477.6	2 158.6	3 599.9	84.1	.63	75	100	19 527.6
1967 CENSUS.	2 611	745	117.7	764.2	78.7	157.8	423.0	1 346.2	1 962.7	3 292.3	80.9	.61	72	99	19 323.2
1966 ASM....	(NA)	(NA)	110.1	677.9	73.8	151.7	381.4	1 241.9	1 844.9	3 049.3	70.6	.58	67	98	19 024.5
1965 ASM....	(NA)	(NA)	102.5	607.3	68.9	140.6	340.9	1 101.1	1 682.6	2 771.4	66.7	.57	62	92	18 010.2
1964 ASM....	(NA)	(NA)	99.1	579.5	65.6	134.1	312.5	1 032.4	1 570.0	2 598.1	62.0	.57	60	89	17 268.5
1963 CENSUS.	2 575	648	97.7	551.7	64.2	130.1	295.0	978.8	(NA)	(NA)	63.6	.58	59	87	16 958.4
	OKLAHOMA CITY SMSA														
1977 CENSUS.	1 067	284	43.1	548.2	28.7	55.7	310.3	1 261.0	1 787.0	2 995.5	93.8	.22	100	100	19 596.9
1976 ASM....	(NA)	(NA)	36.8	448.8	23.0	46.1	237.8	964.8	1 381.8	2 358.0	61.8	.20	85	96	18 753.0
1975 ASM....	(NA)	(NA)	38.2	415.7	22.3	44.0	216.6	846.3	1 217.7	2 068.3	85.6	.21	89	94	18 302.2
1974 ASM....	(NA)	(NA)	40.3	402.9	25.5	50.1	220.7	847.7	1 200.9	2 032.5	64.1	.20	94	102	19 844.8
1973 ASM....	(NA)	(NA)	42.3	377.5	27.6	53.5	210.1	813.0	1 060.1	1 850.6	54.6	.21	98	102	19 897.9
1972 CENSUS.	851	253	41.0	347.1	26.6	51.9	190.9	787.0	837.1	1 595.8	61.6	.22	95	98	19 028.7
1967 CENSUS.	696	182	29.3	185.1	19.6	39.4	103.2	323.3	450.3	779.7	18.4	.15	68	99	19 323.2
1963 CENSUS.	692	173	27.2	153.1	17.6	36.3	74.9	299.2	(NA)	(NA)	21.3	.16	63	87	16 958.4
	TULSA SMSA														
1977 CENSUS.	1 272	391	58.9	774.3	37.0	72.9	427.9	1 701.5	2 141.8	3 809.8	152.5	.30	100	100	19 596.9
1976 ASM....	(NA)	(NA)	48.0	606.9	32.1	63.8	341.3	1 301.7	1 849.3	3 169.3	142.1	.26	81	96	18 753.0
1975 ASM....	(NA)	(NA)	50.9	562.5	33.2	64.2	314.3	1 316.3	1 556.6	2 864.5	136.8	.28	86	94	18 302.2
1974 ASM....	(NA)	(NA)	48.9	469.1	33.5	65.8	285.2	1 116.4	1 358.5	2 369.0	171.1	.25	83	102	19 844.8
1973 ASM....	(NA)	(NA)	52.3	508.7	32.2	62.9	260.0	842.7	1 043.7	1 847.8	107.4	.26	89	102	19 897.9
1972 CENSUS.	958	301	44.9	401.2	29.5	58.2	220.1	704.3	878.0	1 567.6	56.3	.24	76	98	19 028.7

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
				OKLAHOMA					
1977 CENSUS	12 479	67	1 942	5.43	64	80	28 367	44	21.75
1976 ASM	11 612	67	1 946	4.89	64	81	24 035	48	18.52
1975 ASM	10 487	65	1 916	4.54	62	80	22 818	46	18.37
1974 ASM	9 301	68	1 924	4.08	63	81	20 249	46	15.44
1973 ASM	8 783	66	1 924	3.77	61	82	16 596	53	12.98
1972 CENSUS	8 324	67	1 945	3.54	59	81	15 908	52	12.20
1971 ASM	7 746	67	1 967	3.27	60	82	13 876	56	10.57
1970 ASM	7 438	68	1 985	3.12	60	82	13 483	55	9.98
1969 ASM	7 059	68	1 961	3.00	60	83	12 348	57	9.32
1968 ASM	6 764	67	1 983	2.85	60	83	11 964	57	9.02
1967 CENSUS	6 493	67	2 005	2.68	60	83	11 438	57	8.53
1966 ASM	6 157	67	2 056	2.51	61	83	11 280	55	8.19
1965 ASM	5 925	67	2 041	2.42	61	83	10 742	55	7.83
1964 ASM	5 848	66	2 044	2.33	60	83	10 418	56	7.70
1963 CENSUS	5 647	66	2 026	2.27	(NA)	(NA)	10 018	56	7.52
				OKLAHOMA CITY SMSA					
1977 CENSUS	12 728	67	1 944	5.57	60	78	29 275	43	22.63
1976 ASM	12 196	62	2 004	5.16	59	78	26 217	47	20.93
1975 ASM	10 882	58	1 973	4.92	59	79	22 154	49	19.23
1974 ASM	9 998	63	1 965	4.41	59	79	21 035	48	16.92
1973 ASM	8 924	65	1 938	3.93	57	78	19 220	46	15.20
1972 CENSUS	8 466	65	1 951	3.68	52	74	19 195	44	15.16
1967 CENSUS	6 317	67	2 010	2.62	58	81	11 034	57	8.21
1963 CENSUS	5 629	65	2 063	2.06	(NA)	(NA)	11 000	51	8.24
				TULSA SMSA					
1977 CENSUS	13 142	63	1 967	5.87	56	77	28 881	46	23.35
1976 ASM	12 644	67	1 988	5.35	58	77	27 119	47	20.40
1975 ASM	11 051	65	1 934	4.90	54	74	25 861	43	20.50
1974 ASM	9 593	69	1 964	4.33	57	77	22 830	42	16.97
1973 ASM	9 727	62	1 953	4.13	56	84	16 113	60	13.40
1972 CENSUS	8 935	66	1 973	3.78	56	82	15 686	57	12.10

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	3 818	3 042
With 1 to 19 employees	do	2 751	2 145
With 20 to 99 employees	do	717	584
With 100 employees or more	do	350	313
All employees, average for year[1]	1,000	164.4	142.7
Payroll for year, all employees[1]	mil. dollars	2 050.9	1 187.9
Production workers:			
Average for year	1,000	110.4	95.7
March	do	107.9	92.6
May	do	109.6	94.9
August	do	111.3	98.8
November	do	112.2	98.8
Hours	millions	214.3	186.1
January to March	do	52.2	44.5
April to June	do	53.4	46.7
July to September	do	53.9	47.0
October to December	do	54.9	47.8
Wages	mil. dollars	1 164.3	659.0
Cost of materials, etc.[2]	do	8 048.4	3 132.0
Materials, parts, containers, etc., consumed	do	7 132.7	2 853.7
Resales	do	496.8	158.4
Fuels consumed	do	188.7	38.4
Purchased electric energy	do	115.4	32.9
Contract work	do	114.8	48.6
Value of shipments, including resales[2]	do	12 564.5	5 348.1
Value of resales	do	592.0	198.5
Value added by manufacture	do	4 662.3	2 270.1
Manufacturers' inventories:			
Beginning of year	do	1 424.6	688.7
Finished products	do	510.8	251.9
Work in process	do	387.6	202.4
Materials, supplies, fuel, etc.	do	526.3	234.4
End of year	do	1 600.8	766.8
Finished products	do	565.2	276.9
Work in process	do	478.6	225.4
Materials, supplies, fuel, etc.	do	557.0	264.4
Capital expenditures for plant and equipment	do	510.5	233.1
New capital expenditures	do	485.8	223.8
New buildings and other structures	do	94.0	53.5
New machinery and equipment	do	391.8	170.3
Used capital expenditures	do	24.7	9.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	3,398.2	1
New capital expenditures	490.1	3
Used capital expenditures	24.6	6
Retirements	81.7	3
End of year	3,831.2	1
Buildings and other structures:		
Beginning of year	937.9	2
New capital expenditures	97.5	7
Used capital expenditures	5.9	12
Retirements	31.6	4
End of year	1,009.6	2
Machinery and equipment:		
Beginning of year	2,460.3	1
New capital expenditures	392.6	3
Automobiles, trucks, etc., for highway use	18.1	(NA)
Computers and peripheral data processing equip.	22.1	(NA)
All other	303.1	(NA)
New machinery and equipment, n.s.k.	49.4	(NA)
Used capital expenditures	18.7	6
Retirements	50.2	3
End of year	2,821.5	1

Item	Amount (million dollars)	Standard error of estimate (percent)
Rental payments:		
Total	51.4	4
Buildings and other structures	21.0	6
Machinery and equipment	30.5	5
Depreciation charges during 1977:		
Total	247.5	2
Buildings and other structures	41.7	5
Machinery and equipment	205.8	2
Supplemental labor costs:		
Total	337.7	1
Legal costs	139.6	1
Voluntary costs	198.0	2
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	(10.5)	(A)
Response coverage ratio (percent)	61	(X)
Machinery	(80.1)	(A)
Response coverage ratio (percent)	62	(X)
Cost of purchased communication services	(18.6)	(A)
Response coverage ratio (percent)	62	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
(A) Indicates standard errors of 100 percent or more. Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Oklahoma	–	3 818	1 087	184.4	2 050.9	110.4	214.3	1 164.3	4 662.3	8 048.4	12 564.5	485.6	142.7	2 270.1
STANDARD METROPOLITAN STATISTICAL AREAS														
Fort Smith, Ark.-Okla.	–	338	119	23.3	230.4	19.2	37.8	171.2	553.8	846.4	1 383.3	34.0	18.8	281.4
Portion in Arkansas	–	271	106	21.9	217.8	18.1	35.9	162.1	514.8	815.5	1 313.0	30.2	17.7	285.1
Portion in Oklahoma	E1	67	13	1.4	12.6	1.1	1.9	9.1	38.9	30.9	70.3	3.8	1.1	18.4
Lawton	E1	65	14	1.5	13.1	1.0	1.9	7.1	25.4	35.3	60.8	3.4	1.5	20.7
Oklahoma City	–	1 067	284	43.1	548.2	28.7	55.7	310.3	1 261.0	1 787.0	2 995.5	93.8	41.0	787.0
Tulsa	–	1 272	391	58.9	774.3	37.0	72.9	427.9	1 701.5	2 141.8	3 809.8	152.5	44.9	704.3
COUNTIES														
Adair	–	20	5	1.0	6.9	0.8	1.7	4.6	19.8	41.6	81.0	0.8	0.8	7.8
Alfalfa	E8	7	–	(Z)	0.3	(Z)	(Z)	0.2	0.8	0.5	1.1	(Z)	(Z)	(NA)
Atoka	–	11	2	0.2	1.2	0.1	0.2	0.9	2.7	2.1	4.8	(Z)	(D)	(D)
Beaver	E1	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Beckham	–	18	5	0.3	2.1	0.2	0.4	1.0	4.1	11.2	15.0	0.2	0.4	3.2
Blaine	–	15	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	10.7
Bryan	–	36	15	1.3	10.9	1.0	1.8	8.1	24.0	38.0	59.4	0.7	0.8	10.3
Caddo	–	17	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Canadian	–	43	10	1.3	18.1	0.8	1.4	7.1	39.8	31.1	68.5	2.2	1.5	27.5
Carter	–	47	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	32.3
Cherokee	E3	16	2	0.3	1.8	0.2	0.4	1.4	2.9	2.2	5.1	0.1	0.1	1.2
Choctaw	–	15	3	0.3	2.2	0.3	0.5	1.8	5.1	4.4	9.4	0.1	0.3	3.1
Cimarron	–	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cleveland	E1	78	14	1.5	18.2	1.1	2.1	10.8	38.9	60.4	98.3	1.2	1.5	29.8
Coal	–	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Comanche	E1	65	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	20.7
Cotton	E2	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Craig	E1	13	4	0.4	2.9	0.3	0.6	2.1	11.2	8.5	19.4	0.4	0.4	7.2
Creek	–	63	21	2.9	33.1	2.5	4.7	25.2	62.8	54.9	116.4	5.3	2.5	37.3
Custer	–	30	8	1.4	12.5	1.0	2.0	8.1	85.9	58.4	123.1	(D)	0.8	18.4
Delaware	–	20	3	0.3	2.1	0.3	0.3	1.6	5.8	9.4	14.8	0.1	0.3	1.7
Dewey	E0	7	–	(Z)	0.1	(Z)	(Z)	(Z)	0.2	0.3	0.4	(Z)	(Z)	(NA)
Ellis	–	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Garfield	–	78	18	3.0	37.7	1.7	3.3	20.8	152.2	450.1	601.5	(D)	2.2	47.1
Garvin	–	28	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	10.5
Grady	E1	58	23	2.6	23.6	2.2	4.5	17.4	89.7	68.5	134.9	5.1	1.5	16.8
Grant	E4	8	–	(Z)	0.4	(Z)	0.1	0.3	1.0	0.6	1.8	(Z)	(Z)	(NA)
Greer	E1	6	1	(Z)	0.5	(Z)	0.1	0.4	1.6	1.4	3.0	(D)	0.1	0.9
Harmon	–	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Harper	E0	3	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Haskell	E0	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hughes	–	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	3.7
Jackson	–	17	3	0.3	2.5	0.3	0.5	2.0	6.7	7.1	13.3	0.1	0.8	13.7
Jefferson	–	11	3	0.3	2.7	0.3	0.5	2.0	7.7	6.4	14.2	(D)	0.2	2.3
Johnston	E9	8	2	0.1	0.9	0.1	0.2	0.7	1.6	1.3	2.9	0.1	0.1	0.7
Kay	–	78	28	2.9	41.7	2.3	4.8	29.6	100.8	758.9	853.5	13.5	5.2	56.0
Kingfisher	E5	15	1	0.1	1.2	0.1	0.2	0.8	2.6	2.7	5.0	0.3	(Z)	(NA)
Kiowa	E3	13	1	0.1	0.9	0.1	0.2	0.7	1.2	0.9	2.2	(D)	0.1	1.6
Latimer	–	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Le Flore	E2	38	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	6.5
Lincoln	–	28	7	0.9	7.5	0.8	1.4	6.3	20.4	47.4	66.8	0.7	0.7	7.2
Logan	–	21	5	0.8	5.8	0.6	1.1	3.5	13.2	13.2	26.4	(D)	0.8	10.4
Love	–	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
McClain	–	10	3	0.2	1.4	0.2	0.4	1.1	2.5	8.7	9.1	0.1	0.1	0.9
McCurtain	–	66	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
McIntosh	–	8	2	0.2	1.8	0.2	0.4	1.3	4.3	14.9	20.1	(D)	(D)	(D)
Major	E2	8	2	0.2	2.9	0.1	0.3	1.6	5.6	6.0	11.7	0.2	0.1	2.6
Marshall	–	12	3	0.4	3.3	0.4	0.8	2.9	5.4	10.6	16.0	(D)	0.5	4.6
Mayes	–	50	25	2.6	31.4	2.1	4.2	23.3	74.3	113.1	187.0	9.6	1.2	30.1
Murray	E3	7	–	(Z)	0.5	(Z)	(Z)	0.2	0.9	0.8	1.7	(Z)	(D)	(D)
Muskogee	–	93	26	4.0	45.0	3.1	5.7	30.8	121.0	129.6	251.0	8.1	3.6	65.0
Noble	–	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nowata	–	12	3	0.3	2.5	0.3	0.4	2.0	4.3	3.0	7.2	0.4	0.2	1.4
Okfuskee	E2	11	3	0.3	2.2	0.3	0.4	1.8	10.3	1.4	11.6	(D)	0.6	2.9
Oklahoma	–	886	241	38.1	492.2	25.1	48.9	278.2	1 135.5	1 616.2	2 705.2	66.3	36.8	714.7
Okmulgee	–	33	10	1.3	15.5	1.0	2.0	11.4	52.7	128.5	173.3	(D)	1.8	33.4
Osage	–	39	7	0.9	8.2	0.8	1.5	6.5	34.8	40.2	71.5	1.2	5.1	42.2
Ottawa	–	66	19	4.1	50.6	3.4	6.5	40.6	127.9	134.4	258.8	(D)	3.7	75.5
Pawnee	E1	8	1	0.2	1.3	0.2	0.3	1.1	3.7	3.2	6.9	0.1	0.1	1.6
Payne	–	53	15	2.1	24.2	1.7	3.3	18.5	55.6	132.4	189.8	13.9	1.2	24.0
Pittsburg	–	25	8	1.4	11.0	1.0	1.9	8.7	19.8	25.4	45.1	0.8	1.3	8.9
Pontotoc	–	34	14	1.9	19.4	1.8	3.0	14.6	50.6	81.2	132.1	4.7	1.6	26.0
Pottawatomie	–	50	16	2.0	20.3	1.5	2.9	13.1	44.5	72.5	114.4	24.0	1.1	14.4
Pushmataha	E1	8	1	0.1	0.8	0.1	0.2	0.7	1.1	1.0	2.1	0.1	(Z)	(NA)
Roger Mills	E0	2	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(Z)
Rogers	–	38	18	1.7	22.2	1.2	2.5	13.7	116.0	92.3	204.6	22.6	0.6	8.0
Seminole	–	36	13	1.8	13.3	1.5	2.9	10.8	34.6	62.7	94.0	0.9	1.8	13.0
Sequoyah	E1	29	7	0.6	8.1	0.5	0.9	4.2	27.8	20.2	48.5	(D)	0.3	9.9
Stephens	–	62	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	37.7
Texas	–	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Tillman	E2	15	6	0.7	5.0	0.7	1.2	4.0	10.7	10.8	20.1	0.8	0.8	5.7
Tulsa	–	1 068	317	50.1	674.2	30.2	59.3	357.0	1 408.7	1 831.6	3 215.7	113.6	35.3	584.5
Wagoner	–	14	3	0.6	5.1	0.3	0.6	2.3	5.2	9.8	14.5	0.3	0.2	2.1
Washington	–	36	12	7.0	142.3	0.8	1.6	8.4	37.5	47.9	78.3	3.4	7.5	32.3
Washita	–	16	2	0.3	2.1	0.3	0.4	1.7	4.4	7.2	11.3	0.2	0.2	1.9
Woods	–	14	1	0.1	0.8	0.1	0.1	0.5	2.4	3.1	5.4	0.6	0.1	2.8
Woodward	–	17	3	0.5	4.1	0.5	0.9	3.2	8.6	7.6	18.9	0.2	0.5	3.8

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
CITIES														
Ada	-	30	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	14.9
Anadarko	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ardmore	-	39	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	31.9
Bartlesville	-	26	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.2	28.6
Blackwell	E1	21	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Broken Arrow	E1	63	15	1.3	16.4	0.9	1.8	9.5	36.1	35.5	67.4	1.8	0.9	14.3
Broken Bow	-	21	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Chickasha	-	53	22	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	11.7
Claremore	-	18	8	0.7	7.1	0.5	0.9	3.8	14.1	13.7	27.4	(D)	(NA)	(NA)
Clinton	-	20	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cushing	-	17	5	0.6	7.4	0.5	0.9	5.7	6.2	78.2	91.5	3.8	0.5	9.4
Del City	-	14	6	0.5	5.3	0.4	0.7	3.4	24.9	49.2	74.9	2.1	(NA)	(NA)
Duncan	-	48	6	3.1	35.6	2.5	4.5	25.3	86.2	65.9	149.9	5.4	(D)	(D)
Durant	-	23	10	1.0	9.1	0.8	1.5	6.6	21.3	23.7	44.3	0.6	(D)	(D)
Edmond	-	28	7	0.9	10.2	0.7	1.3	7.2	53.7	76.5	130.1	1.1	0.5	9.7
El Reno	-	20	8	0.5	4.4	0.3	0.6	2.5	9.7	16.5	25.9	(D)	(NA)	(NA)
Enid	-	65	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Frederick	E2	14	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Guthrie	-	17	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Idabel	E1	14	5	0.6	4.3	0.5	0.9	3.5	7.4	12.9	20.7	0.6	(NA)	(NA)
Lawton	E1	59	14	1.5	13.0	1.0	1.9	7.0	25.2	34.1	59.2	3.3	(D)	(D)
McAlester	-	21	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Miami	-	35	14	3.4	44.8	2.9	5.4	38.6	114.3	115.1	227.1	4.1	3.0	70.2
Midwest City	-	24	5	0.8	8.1	0.5	1.0	4.3	11.5	24.4	35.4	2.0	0.8	10.4
Muskogee	-	81	21	3.2	34.6	2.4	4.4	22.7	95.2	105.4	200.8	7.3	3.5	62.8
Norman	-	59	12	1.4	16.7	1.0	1.9	9.9	35.8	57.5	92.3	1.0	1.4	27.1
Oklahoma City	-	772	218	35.1	461.4	23.0	44.6	255.2	1 047.7	1 416.8	2 417.2	61.7	33.8	662.0
Perry	-	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ponca City	-	43	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Poteau	E1	12	3	0.5	4.1	0.3	0.6	3.0	6.3	6.0	12.2	0.1	(NA)	(NA)
Pryor Creek	E1	34	20	2.1	24.2	1.8	3.3	17.5	55.2	79.8	135.6	8.9	0.8	19.5
Sallisaw	E1	14	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Sand Springs	-	37	16	1.8	25.5	1.4	3.0	17.4	66.5	67.0	132.0	3.4	1.9	41.0
Sapulpa	-	19	6	1.7	19.6	1.4	2.6	15.1	40.8	22.7	62.9	(D)	1.4	24.5
Shawnee	-	44	16	1.9	19.9	1.5	2.8	12.9	43.7	71.0	112.1	(D)	(D)	(D)
Stillwater	-	28	9	1.4	16.2	1.2	2.3	12.3	48.5	51.9	95.1	10.0	0.7	14.5
Stroud	-	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tulsa	-	901	263	43.3	584.1	25.5	50.0	301.6	1 197.9	1 580.3	2 761.7	103.1	34.8	533.0
Wagoner	-	10	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wewoka	E1	15	7	0.8	5.5	0.6	1.1	4.1	11.4	8.2	19.1	0.1	0.8	2.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	3 818	1 067	184.4	2 050.9	110.4	214.3	1 184.3	4 882.3	8 048.4	12 584.5	485.8	142.7	2 270.1

See footnotea at end of tabie.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
20	**Food and kindred products**	-	**328**	**120**	**14.1**	**158.2**	**9.4**	**18.5**	**89.8**	**375.3**	**1 257.7**	**1 827.3**	**32.1**	**14.4**	**239.7**
201	Meat products	-	94	23	3.6	42.0	2.9	5.8	31.8	65.4	470.1	535.3	2.2	3.4	57.8
2011	Meat packing plants	-	73	17	2.2	32.9	1.7	3.5	24.4	46.7	368.8	415.1	1.8	EE	(D)
2013	Sausages and other prepared meats	-	15	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2016	Poultry dressing plants	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	7.1
202	Dairy products	-	29	17	1.6	17.5	0.8	1.8	7.2	33.5	154.0	187.2	3.4	1.7	31.0
2026	Fluid milk	-	17	13	1.4	15.1	0.6	1.2	5.4	32.5	111.4	143.3	2.2	1.4	25.3
203	Preserved fruits and vegetables	-	15	10	1.7	13.5	1.5	2.9	9.8	43.0	54.2	97.2	2.8	1.7	18.7
2033	Canned fruits and vegetables	E1	7	3	0.8	5.0	0.7	1.4	3.3	14.2	12.3	28.5	(D)	1.1	8.5
2038	Frozen specialties	-	5	4	0.8	6.7	0.7	1.2	5.3	22.7	29.3	52.1	1.0	CC	(D)
204	Grain mill products	-	51	20	1.6	18.6	1.0	2.2	11.8	80.8	283.0	364.8	4.4	1.4	26.0
2041	Flour and other grain mill products	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2047	Dog, cat, and other pet food	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2048	Prepared feeds, n.e.c.	-	41	15	0.9	9.5	0.5	1.1	4.8	22.4	146.8	189.8	1.4	0.9	18.5
205	Bakery products	-	30	10	1.9	25.1	1.2	2.3	11.9	47.6	48.1	93.4	4.1	1.9	38.8
2051	Bread, cake, and related products	-	29	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2052	Cookies and crackers	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
206	Sugar and confectionery products	-	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2065	Confectionery products	-	12	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
207	Fats and oils	-	13	8	0.5	6.9	0.4	0.9	4.6	17.8	59.3	73.2	2.8	0.4	6.7
2074	Cottonseed oil mills	-	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
208	Beverages	-	42	21	2.1	22.8	0.8	1.5	6.3	49.1	91.4	140.4	7.3	2.2	31.2
2086	Bottled and canned soft drinks	-	41	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
209	Miscellaneous foods and kindred products	-	41	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2099	Food preparations, n.e.c.	E2	19	5	0.3	2.9	0.2	0.4	1.8	6.0	7.9	13.8	0.2	CC	(D)
22	**Textile mill products**	-	**19**	**12**	**1.9**	**15.2**	**1.5**	**3.1**	**11.9**	**29.8**	**81.8**	**118.2**	**1.8**	**2.0**	**23.8**
227	Floor covering mills	-	8	6	1.1	8.8	0.8	1.6	8.5	14.0	59.6	78.2	(D)	1.2	15.3
2272	Tufted carpets and rugs	-	8	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
228	Yarn and thread mills	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2281	Yarn mills, except wool	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
23	**Apparel and other textile products**	-	**135**	**79**	**11.3**	**71.8**	**10.2**	**18.8**	**59.8**	**181.4**	**170.8**	**327.8**	**(D)**	**10.2**	**78.7**
2311	Men's and boys' suits and coats	-	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
232	Men's and boys' furnishings	-	30	28	6.2	39.6	5.7	10.6	35.2	105.1	97.4	198.7	(D)	5.0	32.6
2322	Men's and boys' underwear	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2327	Men's and boys' separate trousers	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	10.2
2328	Men's and boys' work clothing	-	19	19	4.3	27.4	3.9	7.3	24.5	78.5	74.9	150.1	(D)	2.2	13.0
233	Women's and misses' outerwear	E2	26	16	1.4	7.6	1.3	2.2	6.4	13.7	6.4	20.0	(D)	1.9	9.7
2331	Women's and misses' blouses and waists	-	4	3	0.2	1.2	0.2	0.4	1.0	1.9	1.2	3.1	(Z)	(NA)	(NA)
2335	Women's and misses' dresses	E4	16	8	0.7	4.1	0.6	1.1	3.4	8.5	2.9	9.4	0.1	EE	(D)
2337	Women's and misses' suits and coats	-	3	3	0.3	1.3	0.3	0.4	1.2	4.2	2.0	6.1	(D)	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	E5	3	2	0.2	1.0	0.2	0.3	0.9	1.2	0.3	1.5	0.3	CC	(D)
234	Women's and children's undergarments	-	8	8	1.1	7.2	0.9	1.8	5.5	11.6	11.4	23.0	(D)	CC	(D)
2341	Women's and children's underwear	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
236	Children's outerwear	E1	12	9	0.6	3.3	0.6	1.1	2.7	5.9	6.6	11.9	(D)	BB	(D)
2361	Children's dresses and blouses	E1	10	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
238	Miscellaneous apparel and accessories	-	5	4	0.5	3.9	0.4	0.6	2.2	6.9	7.7	14.7	(D)	0.6	8.8
2384	Robes and dressing gowns	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2387	Apparel belts	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
239	Miscellaneous fabricated textile products	E1	50	11	1.3	8.9	1.2	2.1	6.7	16.6	39.8	56.6	(D)	1.1	11.2
2391	Curtains and draperies	E1	21	5	0.5	3.3	0.5	0.9	2.8	8.4	11.6	19.3	0.3	BB	(D)
2392	House furnishings, n.e.c.	E1	8	3	0.6	4.1	0.5	0.9	2.8	5.6	23.0	29.3	0.2	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
24	**Lumber and wood products**	-	183	39	3.8	38.9	3.2	8.2	27.8	85.5	175.5	280.1	10.3	4.4	70.8
2411	Logging camps and logging contractors	-	39	2	0.6	7.2	0.5	1.0	4.9	12.5	70.7	83.6	5.2	(NA)	(NA)
242	Sawmills and planing mills	-	45	7	0.8	7.9	0.7	1.5	6.5	18.6	33.5	52.3	1.1	1.4	32.1
2421	Sawmills and planing mills, general	-	38	7	0.8	7.6	0.7	1.4	6.3	18.1	33.1	51.3	1.0	1.3	31.0
243	Millwork, plywood, and structural members	-	46	11	1.0	10.6	0.8	1.6	7.6	24.2	29.9	53.7	1.1	0.8	10.7
2431	Millwork	-	13	4	0.2	2.3	0.2	0.4	1.6	3.1	5.1	8.2	(Z)	AA	(D)
2434	Wood kitchen cabinets	E3	20	5	0.4	3.4	0.3	0.5	2.1	6.5	5.1	11.5	0.3	0.2	2.8
2436	Softwood veneer and plywood	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
244	Wood containers	-	16	6	0.2	1.4	0.2	0.3	1.0	3.7	3.8	6.8	(D)	(NA)	(NA)
245	Wood buildings and mobile homes	-	10	7	0.8	7.7	0.6	1.2	4.6	18.2	24.5	42.4	(D)	1.6	20.9
2451	Mobile homes	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2452	Prefabricated wood buildings	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
249	Miscellaneous wood products	-	27	6	0.4	4.2	0.4	0.7	3.0	8.2	13.3	21.3	(D)	0.5	5.5
2492	Particleboard	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2499	Wood products, n.e.c.	-	21	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.1
25	**Furniture and fixtures**	E1	95	18	1.9	17.1	1.6	2.9	12.0	34.8	37.3	69.7	(D)	1.9	22.1
251	Household furniture	E1	62	11	1.3	9.6	1.0	1.8	6.3	20.6	26.7	47.0	(D)	1.2	13.5
2511	Wood household furniture	-	19	2	0.7	4.5	0.5	1.0	3.1	7.9	11.3	19.1	(D)	0.7	6.9
2512	Upholstered household furniture	E3	18	4	0.3	2.6	0.3	0.5	1.9	5.4	5.8	11.2	0.2	0.3	3.2
2515	Mattresses and bedsprings	E1	18	5	0.2	2.2	0.2	0.3	1.1	6.4	9.0	15.2	(D)	AA	(D)
254	Partitions and fixtures	-	22	4	0.6	7.0	0.5	1.0	5.3	13.0	9.7	20.7	(D)	CC	(D)
2541	Wood partitions and fixtures	-	19	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2542	Metal partitions and fixtures	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
26	**Paper and allied products**	-	38	18	1.8	28.0	1.4	3.0	19.2	84.1	183.3	245.4	(D)	1.8	45.6
2631	Paperboard mills	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
264	Miscellaneous converted paper products	E1	15	3	0.2	1.8	0.1	0.2	1.2	3.7	7.1	11.0	(D)	(NA)	(NA)
265	Paperboard containers and boxes	-	17	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	14.5
2653	Corrugated and solid fiber boxes	-	9	6	0.6	7.2	0.4	0.8	5.0	17.7	28.3	45.9	1.2	CC	(D)
2661	Building paper and board mills	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
27	**Printing and publishing**	E1	836	78	9.0	99.8	5.3	9.4	52.4	219.0	120.8	340.0	12.7	8.2	131.0
2711	Newspapers	-	204	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5	68.0
2721	Periodicals	E1	30	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
273	Books	-	14	2	0.3	4.3	0.1	0.2	0.9	14.1	6.7	21.4	0.2	AA	(D)
2731	Book publishing	-	6	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
275	Commercial printing	E2	310	24	2.4	27.1	1.9	3.5	19.8	48.5	39.0	88.2	2.8	1.9	30.8
2751	Commercial printing, letterpress	E3	171	5	0.9	10.4	0.8	1.3	7.5	18.0	10.9	29.6	(D)	0.8	10.8
2752	Commercial printing, lithographic	E1	133	17	1.4	15.8	1.1	2.0	11.8	29.0	26.8	55.8	2.0	1.0	16.9
2761	Manifold business forms	-	9	6	0.8	9.1	0.6	1.2	6.5	22.6	27.6	49.2	(D)	0.8	12.6
278	Blankbooks and bookbinding	-	13	3	0.3	2.8	0.2	0.4	2.1	6.5	2.2	8.7	0.3	AA	(D)
2782	Blankbooks and looseleaf binders	-	6	3	0.2	2.3	0.2	0.4	1.8	5.7	2.0	7.6	0.2	(NA)	(NA)
279	Printing trade services	E3	35	2	0.2	2.1	0.1	0.2	1.4	3.7	1.3	4.9	0.6	0.2	3.1
28	**Chemicals and allied products**	-	104	21	1.7	25.7	1.2	2.4	15.2	184.1	211.1	374.5	75.7	EE	(D)
281	Industrial inorganic chemicals	-	16	5	0.3	4.7	0.2	0.5	2.8	24.4	17.3	42.3	4.0	0.5	14.2
2819	Industrial inorganic chemicals, n.e.c.	-	7	5	0.3	3.9	0.2	0.3	2.1	17.7	14.4	32.9	(D)	0.5	13.0
2851	Paints and allied products	E1	16	8	0.3	3.1	0.2	0.4	1.8	10.5	14.3	24.9	0.3	BB	(D)
287	Agricultural chemicals	-	11	4	0.6	9.5	0.4	0.9	6.6	83.1	116.4	201.5	(D)	0.3	9.7
2873	Nitrogenous fertilizers	-	4	4	0.5	9.1	0.4	0.9	6.4	80.8	113.7	196.6	(D)	AA	(D)
289	Miscellaneous chemical products	E1	38	3	0.3	4.9	0.2	0.3	2.5	20.8	27.6	47.7	2.0	0.2	11.2
2899	Chemical preparations, n.e.c.	E1	32	2	0.2	3.1	0.1	0.2	1.3	16.4	15.7	31.6	1.1	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
29	**Petroleum and coal products**	–	**49**	**22**	**5.1**	**66.2**	**3.9**	**7.8**	**63.6**	**437.4**	**2 940.9**	**3 350.7**	**90.1**	**5.0**	**105.6**
2911	Petroleum refining	–	16	13	3.9	74.2	3.0	6.2	56.0	405.4	2 840.2	3 218.4	88.4	FF	(D)
295	Paving and roofing materials	–	17	5	0.7	7.6	0.6	1.1	5.5	18.7	43.6	60.4	1.2	0.5	9.4
2952	Asphalt felts and coatings	–	6	4	0.6	6.2	0.5	0.9	4.8	11.7	33.3	44.9	(D)	0.3	5.9
299	Miscellaneous petroleum and coal products	–	16	4	0.4	4.4	0.3	0.5	2.3	15.3	58.9	71.6	0.5	BB	(D)
2992	Lubricating oils and greases	–	15	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
30	**Rubber and miscellaneous plastics products**	–	**104**	**40**	**10.0**	**128.2**	**8.2**	**15.8**	**96.9**	**385.3**	**357.0**	**732.7**	**13.7**	**8.7**	**139.0**
3011	Tires and innar tubes	–	6	6	6.1	91.9	5.1	9.6	72.6	283.4	240.7	515.9	6.7	4.3	102.3
3041	Rubber and plastics hose and belting	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3069	Fabricated rubber products, n.e.c.	–	11	3	0.8	3.7	0.5	1.0	2.3	14.2	11.5	25.4	(D)	BB	(D)
3079	Miscellaneous plastics products	–	65	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
31	**Leather and leather products**	**E4**	**28**	**8**	**0.6**	**5.6**	**0.7**	**1.2**	**3.7**	**10.8**	**9.2**	**19.4**	**0.4**	**CC**	**(D)**
3151	Leather gloves and mittans	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
317	Handbags and other personal leather goods	E7	7	2	0.3	2.0	0.2	0.4	1.2	3.7	2.5	5.8	(D)	BB	(D)
3172	Personal leather goods	E7	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3199	Leather goods, n.e.c.	E4	15	4	0.3	1.6	0.2	0.4	1.2	3.0	3.6	6.5	(D)	(NA)	(NA)
32	**Stone, clay, and glass products**	–	**300**	**63**	**FF**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**8.9**	**179.0**
3211	Flat glass	–	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
322	Glass and glasswara, pressed or blown	–	10	6	3.8	47.1	3.4	6.4	39.1	119.0	82.3	179.0	22.0	3.2	65.1
3221	Glass containers	–	6	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3229	Prassed and blown glass, n.e.c.	–	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3241	Cement, hydraulic	–	3	3	0.4	7.5	0.3	0.6	5.6	41.9	18.5	62.2	4.0	BB	(D)
325	Structural clay products	–	11	6	0.4	4.3	0.4	0.8	3.3	15.3	4.8	20.3	0.9	0.5	5.6
3251	Brick and structural clay tile	–	6	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
326	Pottery and ralated products	–	11	1	0.2	1.4	0.1	0.3	1.2	1.9	0.8	2.7	(D)	AA	(D)
327	Concrete, gypsum, and plaster products	E1	211	34	2.9	35.2	2.1	4.3	22.3	69.5	97.7	167.4	12.9	3.0	56.3
3271	Concrete block and brick	E4	16	4	0.3	2.8	0.2	0.3	1.5	6.3	6.1	12.4	(D)	BB	(D)
3272	Concrete products, n.e.c.	–	50	9	0.7	9.0	0.5	1.1	5.3	18.4	11.7	30.3	0.5	0.6	11.4
3273	Ready-mixed concrete	E1	141	18	1.6	19.7	1.1	2.3	12.8	49.7	89.3	119.0	10.2	1.4	25.6
3275	Gypsum products	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
329	Miscellaneous nonmetallic minaral products	E2	25	4	0.3	2.9	0.2	0.3	1.4	6.7	3.3	9.9	0.3	0.4	5.5
33	**Primary metal industries**	–	**62**	**44**	**5.3**	**89.7**	**4.2**	**8.4**	**49.5**	**124.1**	**176.3**	**293.7**	**19.3**	**FF**	**(D)**
331	Blast furnaca and basic staal products	–	14	4	1.1	17.5	0.9	1.8	11.6	27.0	53.5	61.9	2.0	CC	(D)
3312	Blast furnaces and steel mills	–	8	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3315	Steel wira and relatad products	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3317	Steal pipe and tubes	–	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
332	Iron and steel foundries	–	26	21	2.4	28.0	1.9	3.6	21.2	42.6	32.7	75.5	5.1	1.3	16.6
3321	Gray iron foundrias	–	19	14	1.8	19.2	1.3	2.6	14.4	27.0	21.4	48.6	4.4	CC	(D)
3325	Staal foundries, n.a.c.	–	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
333	Primary nonferrous metals	–	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3333	Primary zinc	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3339	Primary nonfarrous metals, n.a.c.	–	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3351	Copper rolling and drawing	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
338	Nonferrous foundries	–	16	7	0.4	4.9	0.4	0.6	3.7	11.9	11.1	22.7	1.9	0.4	5.9
3381	Aluminum foundries	–	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3362	Brass, bronza, and copper foundrias	–	6	4	0.2	2.0	0.2	0.3	1.6	2.6	3.6	6.3	(D)	(NA)	(NA)
339	Miscellaneous primary metal products	E3	11	3	0.2	2.0	0.1	0.2	1.2	3.3	1.5	4.8	(D)	BB	(D)

See footnotes at and of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
34	**Fabricated metal products**	-	**448**	**171**	**18.8**	**238.1**	**13.8**	**27.3**	**153.8**	**513.1**	**519.2**	**1 034.5**	**37.0**	**14.0**	**224.1**
343	Plumbing and heating, except electric	-	11	2	0.3	3.8	0.3	0.6	2.6	15.2	14.4	26.7	(D)	(NA)	(NA)
3432	Plumbing fittings and brass goods	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
344	Fabricated structural metal products	-	235	105	11.6	151.5	8.5	16.9	98.3	325.4	353.9	680.6	14.2	9.9	155.7
3441	Fabricated structural metal	-	49	25	3.2	37.8	2.2	4.0	22.2	68.4	83.7	150.7	4.0	3.4	45.1
3442	Metal doors, sash, and trim	-	23	8	1.3	15.3	0.8	1.7	9.7	34.9	27.1	61.4	0.6	EE	(D)
3443	Fabricated plate work (boiler shops)	-	80	49	5.6	79.4	4.5	9.2	56.3	187.9	199.3	390.8	8.2	4.1	72.5
3444	Sheet metal work	E1	48	14	0.6	7.1	0.4	0.8	4.6	14.0	16.0	29.9	0.8	0.4	8.1
3446	Architectural metal work	E2	17	6	0.4	3.4	0.3	0.6	2.5	5.8	7.0	12.8	0.4	(NA)	(NA)
3448	Prefabricated metal buildings	E1	14	3	0.6	7.9	0.2	0.5	2.6	12.6	15.4	27.7	(D)	CC	(D)
345	Screw machine products, bolts, etc.	E4	10	4	0.3	3.0	0.2	0.4	2.1	5.1	8.6	11.6	(D)	0.2	2.7
3452	Bolts, nuts, rivets, and washers	E5	4	3	0.2	1.8	0.1	0.2	1.3	3.3	3.9	7.3	0.1	(NA)	(NA)
346	Metal forgings and stampings	E1	21	8	0.5	4.9	0.4	0.8	3.3	10.8	11.8	22.5	0.8	BB	(D)
3469	Metal stampings, n.e.c.	-	18	6	0.3	3.0	0.2	0.5	1.9	5.8	5.6	11.4	0.6	BB	(D)
347	Metal services, n.e.c.	E1	52	11	0.7	6.7	0.5	1.2	4.6	13.0	7.1	20.0	0.5	CC	(D)
3471	Plating and polishing	E2	30	7	0.3	3.4	0.3	0.6	2.3	5.6	2.2	7.8	0.3	0.2	3.3
3479	Metal coating and allied services	-	22	4	0.3	3.3	0.3	0.6	2.4	7.4	4.9	12.2	0.2	BB	(D)
349	Miscellaneous fabricated metal products	-	99	39	5.0	65.9	3.5	7.1	41.0	140.4	117.3	261.8	17.7	2.5	47.6
3494	Valves and pipe fittings	-	25	14	2.8	39.7	1.8	3.8	22.9	93.0	63.8	160.9	7.2	EE	(D)
3496	Miscellaneous fabricated wire products	-	12	4	0.6	7.4	0.5	1.0	4.9	10.8	22.1	33.1	(D)	BB	(D)
3498	Fabricated pipe and fittings	-	12	4	0.4	6.9	0.3	0.6	5.0	14.3	9.7	23.9	1.1	0.2	3.4
3499	Fabricated metal products, n.e.c.	E2	46	14	0.9	10.8	0.7	1.5	7.2	19.7	17.8	37.3	(D)	0.5	7.5
35	**Machinery, except electrical**	-	**850**	**154**	**28.1**	**351.5**	**17.8**	**35.1**	**195.5**	**792.4**	**777.1**	**1 527.5**	**59.5**	**22.7**	**478.4**
351	Engines and turbines	-	6	4	0.9	8.6	0.7	1.3	5.6	19.3	17.9	32.5	(D)	BB	(D)
3519	Internal combustion engines, n.e.c.	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
352	Farm and garden machinery	E1	38	7	0.9	11.2	0.6	1.3	6.6	23.7	32.8	53.5	2.5	0.8	14.2
3523	Farm machinery and equipment	E1	38	7	0.9	11.2	0.6	1.3	6.6	23.7	32.8	53.5	2.5	CC	(D)
353	Construction and related machinery	-	111	53	11.1	151.9	7.5	14.7	90.6	383.6	389.8	747.9	18.8	7.9	151.9
3531	Construction machinery	-	26	16	4.5	68.2	2.6	5.3	35.8	148.2	221.6	352.8	5.5	3.8	76.6
3532	Mining machinery	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3533	Oil field machinery	-	58	28	5.6	71.0	4.2	7.9	47.2	198.8	149.0	341.9	12.0	3.6	66.9
3536	Hoists, cranes, and monorails	-	6	4	0.5	7.3	0.4	0.7	4.0	22.2	10.5	31.8	(D)	BB	(D)
354	Metalworking machinery	E5	37	2	0.2	2.3	0.2	0.3	1.7	3.7	1.8	5.5	0.4	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures	E4	24	2	0.2	1.6	0.1	0.2	1.2	2.3	1.0	3.2	0.4	(NA)	(NA)
355	Special industry machinery	-	42	15	1.9	25.0	1.3	2.4	12.8	71.1	43.3	110.3	(D)	1.4	28.2
3559	Special industry machinery, n.e.c.	-	31	12	1.8	23.1	1.2	2.2	11.9	65.8	40.6	102.2	2.4	1.2	24.0
356	General industrial machinery	-	91	29	4.3	55.1	2.9	5.5	30.4	145.7	109.2	253.0	5.9	4.7	72.3
3561	Pumps and pumping equipment	-	17	9	1.8	24.1	1.1	2.1	11.7	83.3	48.7	128.7	2.4	2.7	41.7
3562	Ball and roller bearings	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3563	Air and gas compressors	-	9	5	0.4	8.5	0.3	0.6	3.7	12.0	15.4	27.7	0.9	AA	(D)
3564	Blowers and fans	-	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3566	Speed changers, drives, and gears	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3567	Industrial furnaces and ovens	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3569	General industrial machinery, n.e.c.	-	29	8	0.8	9.3	0.5	0.8	4.1	16.9	15.2	33.7	(D)	CC	(D)
357	Office and computing machines	-	10	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3573	Electronic computing equipment	-	5	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
358	Refrigeration and service machinery	E1	30	9	1.5	18.3	1.1	2.3	12.1	37.3	56.4	93.6	1.6	EE	(D)
3585	Refrigeration and heating equipment	E1	17	7	1.3	16.7	1.0	2.1	11.2	34.0	53.6	87.5	1.4	EE	(D)
359	Miscellaneous machinery, except electrical	E3	285	32	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	27.0
3599	Machinery, except electrical, n.e.c.	E3	282	31	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
36	**Electric and electronic equipment**	-	121	47	11.9	146.1	9.4	17.6	101.9	400.4	448.5	813.3	24.5	10.9	202.4
361	Electric distributing equipment	-	9	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3613	Switchgear and switchboard apparatus	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
362	Electrical industrial apparatus	-	12	7	1.6	15.7	1.1	1.8	9.2	22.7	38.5	59.4	0.8	CC	(D)
3621	Motors and generators	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3622	Industrial controls	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
364	Electric lighting and wiring equipment	-	13	5	0.4	3.7	0.3	0.7	2.8	12.8	4.7	16.5	(D)	AA	(D)
3648	Lighting equipment, n.e.c.	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
365	Radio and TV receiving equipment	E1	13	2	0.4	3.5	0.3	0.5	2.4	4.8	7.4	13.0	0.2	BB	(D)
3651	Radio and TV receiving sets	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
366	Communication equipment	-	29	15	7.4	101.5	8.0	11.3	73.1	306.2	359.3	634.0	(D)	FF	(D)
3661	Telephone and telegraph apparatus	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3662	Radio and TV communication equipment	-	27	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
367	Electronic components and accessories	-	31	10	1.4	13.5	1.1	2.4	9.5	31.4	17.4	48.2	3.2	EE	(D)
3674	Semiconductors and related devices	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3678	Electronic connectors	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3679	Electronic components, n.e.c.	E1	26	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
369	Miscellaneous electrical equipment and supplies	-	11	4	0.4	4.9	0.3	0.6	3.0	14.2	9.9	23.2	(D)	AA	(D)
3691	Storage batteries	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
37	**Transportation equipment**	-	184	59	11.5	147.0	8.7	17.1	100.7	308.9	275.2	573.6	8.9	8.8	150.0
371	Motor vehicles and equipment	-	98	33	4.8	51.1	3.8	7.2	34.0	146.8	122.2	263.8	(D)	2.7	52.1
3713	Truck and bus bodies	E4	18	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories	-	51	18	3.6	40.2	2.9	5.4	26.1	122.3	90.8	208.0	3.8	EE	(D)
3715	Truck trailers	E1	29	12	0.9	8.5	0.7	1.4	6.1	19.8	25.8	45.8	(D)	CC	(D)
372	Aircraft and parts	-	24	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3721	Aircraft	-	7	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3724	Aircraft engines and engine parts	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3728	Aircraft equipment, n.e.c.	-	13	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
373	Ship and boat building and repairing	E1	22	4	0.2	2.0	0.2	0.4	1.4	3.3	7.1	10.2	(D)	0.2	1.9
3732	Boat building and repairing	E1	22	4	0.2	2.0	0.2	0.4	1.4	3.3	7.1	10.2	(D)	AA	(D)
379	Miscellaneous transportation equipment	E1	32	12	0.9	8.2	0.8	1.8	8.1	15.2	35.7	51.4	(D)	EE	(D)
3792	Travel trailers and campers	-	17	5	0.5	3.8	0.4	0.8	2.8	5.8	17.7	23.9	0.4	CC	(D)
3799	Transportation equipment, n.e.c.	E1	15	7	0.5	4.3	0.4	0.8	3.3	9.4	18.0	27.5	(D)	0.5	7.0
38	**Instruments and related products**	-	60	21	2.5	31.6	1.4	2.6	13.2	141.5	52.6	190.0	8.1	CC	(D)
382	Measuring and controlling devices	-	34	11	1.2	17.1	0.5	1.0	5.0	31.5	17.0	48.2	1.9	CC	(D)
3823	Process control instruments	-	11	7	1.0	14.6	0.4	0.7	3.8	26.4	13.4	37.5	1.8	(NA)	(NA)
384	Medical instruments and supplies	E1	22	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3841	Surgical and medical instruments	E2	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3842	Surgical appliances and supplies	-	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3861	Photographic equipment and supplies	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
39	**Miscellaneous manufacturing industries**	E1	160	20	1.9	16.1	1.5	2.7	10.9	42.2	35.1	76.6	3.5	EE	(D)
394	Toys and sporting goods	-	34	8	1.0	7.3	0.9	1.5	5.4	24.8	22.5	46.7	(D)	CC	(D)
3949	Sporting and athletic goods, n.e.c.	-	31	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
399	Miscellaneous manufactures	E3	100	10	0.7	7.8	0.8	1.0	4.8	15.1	10.7	25.7	(D)	CC	(D)
3993	Signs and advertising displays	E1	52	5	0.3	3.8	0.2	0.5	2.4	8.3	3.5	11.7	0.9	0.5	8.5
3999	Manufacturing industries, n.e.c.	E7	33	3	0.3	2.8	0.2	0.4	1.7	5.6	4.5	10.1	(D)	0.2	2.4
–	**Administrative and auxiliary**	-	73	35	14.2	264.6	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statiatics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includea extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Fort Smith, Ark.-Okla., SMSA	-	**338**	**119**	**23.3**	**230.4**	**19.2**	**37.8**	**171.2**	**553.8**	**848.4**	**1 383.3**	**34.0**	**18.8**	**281.4**
20	Food and kindred products	-	40	20	2.8	25.9	2.3	4.6	17.8	78.1	299.4	377.1	3.9	2.8	48.1
205	Bakery products	-	5	3	0.4	4.2	0.2	0.4	2.1	7.4	7.8	15.2	0.5	0.4	5.2
23	Apparel and other textile products	E3	9	5	0.4	2.6	0.4	0.8	2.1	3.4	2.8	6.2	0.1	0.4	1.9
24	Lumber and wood products	-	31	6	0.4	3.7	0.4	0.6	2.8	6.0	9.8	15.8	0.4	0.5	4.8
25	Furniture and fixtures	-	53	20	5.5	43.9	4.7	9.3	34.1	89.2	95.7	177.6	3.5	4.9	57.3
251	Household furniture	-	47	18	5.3	42.0	4.8	9.0	32.6	85.7	91.9	170.3	(D)	4.6	52.6
275	Commercial printing	-	19	3	0.4	4.5	0.3	0.8	3.1	7.3	4.0	11.1	(D)	0.3	4.9
32	Stone, clay, and glass products	-	34	9	0.7	8.8	0.8	1.2	5.6	15.4	17.0	33.1	0.4	1.0	16.8
33	Primary metal industries	-	5	4	0.4	4.3	0.3	0.6	2.7	8.3	8.2	15.8	1.1	(NA)	(NA)
344	Fabricated structural metal products	E1	10	2	0.3	2.8	0.2	0.4	1.6	4.2	4.6	9.6	0.1	(NA)	(NA)
35	Machinery, except electrical	-	34	8	2.9	34.5	2.3	5.0	27.3	83.8	103.0	182.0	3.7	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	9	3	0.4	3.1	0.3	0.8	2.3	8.8	3.0	11.8	0.1	0.6	8.0
--	Administrative and auxiliary	-	8	5	0.4	6.9	-	-	-	-	-	-	-	(NA)	(NA)
	Lawton SMSA	-	**85**	**14**	**1.5**	**13.1**	**1.0**	**1.9**	**7.1**	**25.4**	**35.3**	**80.6**	**3.4**	**1.5**	**20.7**
20	Food and kindred products	-	12	4	0.5	4.6	0.2	0.4	1.7	10.8	23.0	33.8	2.0	0.5	10.6
	Oklahoma City SMSA	-	**1 067**	**284**	**43.1**	**548.2**	**28.7**	**55.7**	**310.3**	**1 261.0**	**1 787.0**	**2 995.5**	**93.8**	**41.0**	**787.0**
20	Food and kindred products	-	84	43	5.8	73.2	3.6	7.5	43.8	190.5	644.2	831.0	16.1	5.5	110.5
201	Meat products	-	21	9	1.8	28.5	1.3	2.8	19.3	39.2	253.2	292.9	1.1	1.7	36.1
202	Dairy products	-	9	6	0.8	6.3	0.3	0.6	2.9	13.2	65.7	78.7	2.0	0.6	12.4
204	Grain mill products	-	10	6	0.7	9.2	0.5	1.1	8.4	57.2	120.7	178.2	(D)	0.6	10.7
205	Bakery products	-	8	4	0.7	11.1	0.4	0.9	5.3	18.0	21.5	39.4	1.7	0.7	16.1
2051	Bread, cake, and related products	-	8	4	0.7	11.1	0.4	0.9	5.3	18.0	21.5	39.4	1.7	0.7	16.1
208	Beverages	-	9	8	0.7	6.5	0.2	0.4	2.0	22.5	44.2	66.7	2.7	0.6	8.9
2086	Bottled and canned soft drinks	-	9	8	0.7	8.5	0.2	0.4	2.0	22.5	44.2	66.7	2.7	0.6	8.9
239	Miscellaneous fabricated textile products	E1	21	8	0.4	3.1	0.4	0.7	2.2	8.0	11.4	16.8	0.3	0.4	5.5
25	Furniture and fixtures	E1	31	7	0.4	4.0	0.3	0.8	2.7	7.4	8.9	16.0	0.6	0.4	6.1
27	Printing and publishing	-	218	28	4.0	48.1	2.2	3.9	23.6	96.7	54.3	152.3	4.7	3.3	58.4
2752	Commercial printing, lithographic	-	54	9	0.6	7.9	0.5	0.9	5.7	15.9	18.6	32.5	1.0	0.7	10.3
29	Petroleum and coal products	-	14	3	0.3	3.7	0.2	0.4	1.9	10.3	24.0	33.7	0.6	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	34	12	2.9	33.1	2.3	4.1	23.7	82.1	91.8	174.3	5.1	2.1	39.0
32	Stone, clay, and glass products	-	81	17	1.4	17.7	0.9	2.0	9.9	44.5	40.4	84.8	4.4	1.5	27.6
327	Concrete, gypsum, and plaster products	-	38	11	1.0	13.8	0.7	1.5	7.5	30.9	34.9	65.9	3.6	1.0	20.6
3273	Ready-mixed concrete	-	11	3	0.4	5.7	0.2	0.4	2.9	14.7	23.9	38.7	(D)	0.5	9.8
33	Primary metal industries	-	14	5	0.5	6.1	0.4	0.9	4.3	10.6	20.4	31.0	0.7	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Oklahoma City SMSA—Con.														
34	Fabricated metal products	–	121	42	5.3	65.1	3.4	7.1	36.8	146.0	136.3	277.5	10.6	4.3	73.9
344	Fabricated structural metal products	–	65	27	3.5	43.8	2.2	4.5	24.4	88.4	90.8	176.1	4.0	3.1	47.2
3441	Fabricated structural metal	–	12	8	1.1	12.6	0.7	1.4	6.6	27.4	36.2	81.9	1.0	1.1	14.1
3442	Metal doors, sash, and trim	–	13	7	1.2	14.4	0.8	1.6	9.3	33.4	25.8	58.5	0.6	1.1	20.1
3443	Fabricated plate work (boiler shops)	E1	11	4	0.5	6.3	0.4	0.8	4.3	10.4	7.8	17.8	(D)	0.3	3.2
3448	Prefabricated metal buildings	E1	6	2	0.5	6.9	0.2	0.4	1.9	10.1	13.0	22.8	0.1	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	25	9	1.4	18.0	1.0	2.0	10.0	48.3	39.3	86.1	(D)	0.9	23.4
3499	Fabricated metal products, n.e.c.	E5	11	3	0.3	2.8	0.2	0.4	2.0	4.4	3.5	7.8	0.2	(NA)	(NA)
35	Machinery, except electrical	–	161	39	6.2	81.9	4.2	8.5	44.1	156.7	184.9	335.8	7.0	6.8	202.7
356	General industrial machinery	–	21	8	1.0	10.6	0.7	1.4	6.0	33.6	27.7	59.8	1.4	(NA)	(NA)
37	Transportation equipment	–	57	16	4.1	48.5	3.0	5.7	30.8	94.6	123.7	211.9	2.3	3.2	62.1
3714	Motor vehicle parts and accessories	–	25	8	1.9	24.1	1.5	2.8	14.7	54.2	46.2	96.8	(D)	(NA)	(NA)
38	Instruments and related products	–	25	6	0.7	8.8	0.4	0.8	3.8	57.0	9.8	66.6	1.1	(NA)	(NA)
39	Miscellaneous manufacturing industries	E3	56	8	0.4	3.7	0.3	0.5	2.3	8.0	6.0	14.0	0.6	(NA)	(NA)
--	Administrative and auxiliary	–	24	13	2.4	42.3	–	–	–	–	–	–	–	(NA)	(NA)
	Tulsa SMSA	–	**1 272**	**391**	**58.9**	**774.3**	**37.0**	**72.9**	**427.9**	**1 701.5**	**2 141.8**	**3 809.8**	**152.5**	**44.9**	**704.3**
208	Beverages	–	6	4	0.6	6.9	0.3	0.5	2.1	6.7	20.4	27.1	2.0	0.6	10.0
2086	Bottled and canned soft drinks	–	6	4	0.6	6.9	0.3	0.5	2.1	6.7	20.4	27.1	2.0	0.6	10.0
22	Textile mill products	–	6	4	0.5	4.2	0.4	0.9	3.6	11.6	19.7	31.7	(D)	(NA)	(NA)
23	Apparel and other textile products	–	25	12	1.3	7.4	1.2	2.2	6.7	18.3	17.7	35.7	0.3	1.0	9.6
24	Lumber and wood products	E1	34	9	0.5	4.8	0.4	0.7	3.1	8.7	12.4	21.0	0.7	0.5	7.2
25	Furniture and fixtures	E1	20	2	0.5	5.9	0.4	0.9	4.3	11.4	7.4	16.8	0.4	0.5	6.5
26	Paper and allied products	E1	14	6	0.7	9.5	0.5	1.1	7.3	25.4	38.3	63.7	2.0	0.4	10.4
27	Printing and publishing	E1	169	21	2.6	31.1	1.6	2.9	16.7	70.7	30.0	100.6	5.3	2.5	40.3
28	Chemicals and allied products	–	40	12	1.0	13.9	0.7	1.4	8.8	81.0	106.1	185.5	21.9	0.7	23.7
30	Rubber and miscellaneous plastics products	–	43	16	1.4	14.8	1.1	2.2	10.0	46.2	37.3	82.5	2.3	0.9	15.3
3079	Miscellaneous plastics products	–	35	14	1.2	12.8	0.9	1.8	8.6	42.8	34.7	76.5	2.1	(NA)	(NA)
32	Stone, clay, and glass products	–	74	20	3.6	52.1	3.0	6.0	39.0	171.1	105.5	277.9	23.5	2.8	54.6
33	Primary metal industries	–	42	22	2.9	39.5	2.3	4.4	28.1	62.8	87.9	152.3	5.7	2.3	40.1
332	Iron and steel foundries	–	10	9	1.3	15.6	1.0	2.1	11.9	19.7	18.8	38.8	1.8	0.8	11.1
34	Fabricated metal products	–	232	103	10.8	148.7	8.2	16.4	99.4	316.6	318.7	644.6	17.8	8.4	133.8
344	Fabricated structural metal products	–	123	64	7.0	96.5	5.4	10.7	66.4	215.9	238.2	458.6	8.6	6.0	98.6
3441	Fabricated structural metal	–	22	11	1.6	19.5	1.2	2.0	12.3	30.7	34.0	65.0	2.1	2.0	26.9
3443	Fabricated plate work (boiler shops)	–	63	42	4.8	71.0	3.9	8.0	50.3	173.0	188.2	365.6	6.1	3.7	67.0
3444	Sheet metal work	E1	20	9	0.3	3.6	0.2	0.4	2.2	6.6	6.9	13.4	0.2	(NA)	(NA)
347	Metal services, n.e.c.	E1	28	9	0.5	5.1	0.4	0.9	3.4	8.0	4.4	12.4	0.4	0.6	7.5
3471	Plating and polishing	E1	16	7	0.3	2.9	0.2	0.5	1.9	4.6	1.8	6.4	0.2	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	54	22	2.8	40.3	1.9	4.0	25.3	81.0	63.1	149.2	7.9	1.4	22.2
3494	Valves and pipe fittings	–	16	10	2.0	27.2	1.2	2.6	16.1	53.2	41.3	99.8	(D)	(NA)	(NA)
3499	Fabricated metal products, n.e.c.	E1	22	7	0.4	5.7	0.3	0.7	3.8	12.4	10.8	23.2	(D)	(NA)	(NA)
35	Machinery, except electrical	–	285	77	14.1	172.9	7.7	15.2	86.4	395.7	387.9	759.7	36.1	9.8	174.7
353	Construction and related machinery	–	47	27	5.0	71.6	3.0	6.0	39.4	177.5	226.7	386.8	8.2	3.2	60.4
3531	Construction machinery	–	11	10	3.0	44.6	1.6	3.2	23.1	90.7	172.9	249.1	3.0	2.2	37.4
3533	Oil field machinery	–	24	13	1.6	20.6	1.1	2.2	13.4	70.0	44.0	112.2	(D)	(NA)	(NA)
355	Special industry machinery	–	24	8	1.2	17.2	0.8	1.7	9.3	43.9	30.3	70.3	(D)	0.8	16.0
356	General industrial machinery	–	49	15	2.4	32.9	1.5	2.7	16.7	94.5	59.5	154.2	3.1	2.2	39.5
3561	Pumps and pumping equipment	–	8	5	1.2	17.7	0.8	1.3	8.6	62.8	30.6	92.5	1.7	1.1	23.4
3569	General industrial machinery, n.e.c.	–	20	5	0.7	7.9	0.4	0.7	3.4	14.1	12.8	28.5	0.7	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E3	131	17	1.3	14.9	1.0	2.1	10.5	26.2	11.9	37.8	2.6	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E3	131	17	1.3	14.9	1.0	2.1	10.5	26.2	11.9	37.8	2.6	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Tulsa SMSA—Con.													
36	Electric and electronic equipment	-	51	19	3.5	36.9	2.4	4.5	21.3	63.6	68.3	129.2	5.2	1.9	23.4
37	Transportation equipment	-	38	14	4.4	70.6	3.2	6.5	49.3	142.3	63.4	200.9	3.3	3.9	69.1
38	Instruments and related products	E1	40	6	0.6	7.1	0.4	0.6	3.6	16.5	9.9	26.1	(D)	0.5	7.3
3823	Process control instruments	-	5	3	0.3	3.6	0.2	0.4	2.0	9.7	4.6	14.0	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	59	8	1.0	9.1	0.9	1.5	6.4	27.6	23.1	50.2	2.5	1.0	20.0
--	Administrative and auxiliary	-	31	15	5.5	90.1	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Adair County	-	20	5	1.0	6.9	0.6	1.7	4.8	19.6	41.8	81.0	0.8	0.6	7.6
	Bryan County	-	38	15	1.3	10.9	1.0	1.6	6.1	24.0	38.0	59.4	0.7	0.8	10.3
	Canadian County	-	43	10	1.3	16.1	0.6	1.4	7.1	39.6	31.1	88.5	2.2	1.5	27.5
	Cleveland County	-	76	14	1.5	16.2	1.1	2.1	10.6	36.9	80.4	98.3	1.2	1.5	29.8
	Creek County	-	63	21	2.9	33.1	2.5	4.7	25.2	62.8	54.9	116.4	5.3	2.5	37.3
	Custer County	-	30	8	1.4	12.5	1.0	2.0	6.1	85.9	58.4	123.1	(D)	0.8	18.4
	Garfield County	-	76	18	3.0	37.7	1.7	3.3	20.8	152.2	450.1	801.5	(D)	2.2	47.1
35	Machinery, except electrical	-	16	3	1.1	13.2	0.6	1.5	8.7	37.0	40.9	75.9	1.3	0.7	10.9
	Grady County	-	56	23	2.6	23.8	2.2	4.5	17.4	89.7	88.5	134.9	5.1	1.5	18.8
37	Transportation equipment	-	20	10	1.3	11.9	1.1	2.3	9.1	33.9	31.6	64.7	1.8	0.6	5.8
	Kay County	-	78	28	2.9	41.7	2.3	4.8	29.6	100.8	758.9	653.5	13.5	5.2	56.0
	Lincoln County	-	28	7	0.9	7.5	0.8	1.4	8.3	20.4	47.4	68.8	0.7	0.7	7.2
	Logan County	-	21	5	0.6	5.8	0.8	1.1	3.5	13.2	13.2	28.4	(D)	0.8	10.4
	Mayes County	-	50	25	2.8	31.4	2.1	4.2	23.3	74.3	113.1	187.0	9.8	1.2	30.1
26	Chemicals and allied products	-	7	4	0.5	6.0	0.4	0.7	4.4	12.9	34.9	47.2	(D)	(NA)	(NA)
	Muskogee County	-	93	28	4.0	45.0	3.1	5.7	30.6	121.0	129.8	251.0	8.1	3.6	65.0
20	Food and kindred products	E2	16	7	0.6	6.0	0.4	0.8	3.1	13.4	43.6	57.5	(D)	0.9	10.5

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Oklahoma County	–	666	241	36.1	492.2	25.1	46.9	276.2	1 135.5	1 616.2	2 705.2	66.3	38.6	714.7
20	Food and kindred products	–	65	37	5.1	68.2	3.3	6.9	40.9	178.8	597.6	770.6	14.2	5.0	106.1
201	Meat products	–	15	8	1.7	26.0	1.3	2.8	18.9	38.9	247.9	287.4	1.1	(NA)	(NA)
23	Apparel and other textile products	E1	23	8	0.8	8.5	0.7	1.2	4.0	10.3	15.2	24.9	0.4	1.1	13.1
27	Printing and publishing	–	178	21	3.6	42.4	2.0	3.6	21.9	90.1	51.7	143.0	4.4	3.0	53.8
275	Commercial printing	E1	113	12	1.3	15.5	1.0	1.9	11.2	27.9	23.9	52.5	1.4	0.9	15.1
2751	Commercial printing, letterpress	E1	62	3	0.7	7.9	0.5	1.0	5.6	12.5	7.8	20.8	0.4	(NA)	(NA)
3079	Miscellaneous plastics products	–	25	8	0.6	6.2	0.5	1.0	4.3	19.9	23.8	44.1	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	47	15	1.2	15.4	0.8	1.7	8.5	35.5	34.5	70.1	3.8	1.2	22.0
34	Fabricated metal products	–	108	39	5.1	63.5	3.3	6.9	35.9	142.8	132.0	289.8	10.4	4.2	72.8
344	Fabricated structural metal products	–	60	26	3.5	43.0	2.2	4.5	24.1	87.0	89.2	173.0	4.0	3.0	46.2
3442	Metal doors, sash, and trim	–	12	7	1.2	14.4	0.8	1.6	9.3	33.4	25.6	58.5	0.8	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	22	9	1.4	17.8	1.0	2.0	9.9	48.2	38.8	85.5	(D)	0.9	23.3
35	Machinery, except electrical	–	136	32	4.4	57.4	3.1	6.3	31.9	99.1	126.8	225.0	4.8	5.0	162.0
358	Refrigeration and service machinery	E1	14	4	0.5	5.2	0.4	0.8	3.7	10.9	10.4	20.9	0.5	(NA)	(NA)
37	Transportation equipment	–	41	13	3.8	46.5	2.8	5.5	29.5	90.9	113.2	197.8	2.0	(NA)	(NA)
371	Motor vehicles and equipment	–	24	8	2.2	26.7	1.8	3.4	16.6	64.2	52.7	112.3	(D)	2.0	43.7
--	Administrative and auxiliary	–	22	13	2.4	42.3	–	–	–	–	–	–	–	(NA)	(NA)
	Okmulgee County	–	33	10	1.3	15.5	1.0	2.0	11.4	52.7	128.5	173.3	(D)	1.6	33.4
	Osage County	–	39	7	0.9	8.2	0.8	1.5	8.5	34.8	40.2	71.5	1.2	5.1	42.2
	Ottawa County	–	66	19	4.1	50.6	3.4	6.5	40.8	127.9	134.4	258.6	(D)	3.7	75.5
23	Apparel and other textile products	E2	3	3	0.7	3.6	0.5	1.1	2.9	4.8	11.3	15.9	(D)	(NA)	(NA)
	Payne County	–	53	15	2.1	24.2	1.7	3.3	16.5	55.8	132.4	169.6	13.9	1.2	24.0
	Pittsburg County	–	25	6	1.4	11.0	1.0	1.9	6.7	19.6	25.4	45.1	0.8	1.3	6.9
	Pontotoc County	–	34	14	1.9	19.4	1.6	3.0	14.6	50.6	61.2	132.1	4.7	1.8	26.0
	Pottawatomie County	–	50	16	2.0	20.3	1.5	2.9	13.1	44.5	72.5	114.4	24.0	1.1	14.4
	Rogers County	–	36	16	1.7	22.2	1.2	2.5	13.7	116.0	92.3	204.6	22.6	0.6	6.0
35	Machinery, except electrical	–	11	5	0.6	7.5	0.4	0.9	4.0	15.6	21.9	35.0	(D)	(NA)	(NA)
	Seminole County	–	36	13	1.6	13.3	1.5	2.9	10.6	34.6	62.7	94.0	0.9	1.8	13.0
	Sequoyah County	–	29	7	0.6	6.1	0.5	0.9	4.2	27.6	20.2	48.5	(D)	0.3	9.9
	Tillman County	–	15	6	0.7	5.0	0.7	1.2	4.0	10.7	10.6	20.1	0.6	0.8	5.7
	Tulsa County	–	1 066	317	50.1	674.2	30.2	59.3	357.0	1 406.7	1 831.6	3 215.7	113.6	35.3	584.5
208	Beverages	–	6	4	0.6	8.9	0.3	0.5	2.1	6.7	20.4	27.1	2.0	(NA)	(NA)
2086	Bottled and canned soft drinks	–	6	4	0.6	6.9	0.3	0.5	2.1	6.7	20.4	27.1	2.0	(NA)	(NA)
23	Apparel and other textile products	E1	20	7	0.5	2.8	0.4	0.8	2.2	5.3	7.3	12.1	(D)	(NA)	(NA)
27	Printing and publishing	E1	146	19	2.5	29.5	1.5	2.8	16.0	67.7	28.6	96.2	5.2	(NA)	(NA)
275	Commercial printing	E3	87	8	0.7	7.6	0.5	1.0	5.7	12.7	10.7	23.4	1.1	0.5	8.8
32	Stone, clay, and glass products	–	48	13	1.8	30.6	1.4	3.2	22.4	110.3	76.6	187.7	(D)	1.2	24.7
34	Fabricated metal products	–	194	87	9.6	132.9	7.2	14.5	87.6	282.2	287.9	578.6	16.4	7.1	119.9
344	Fabricated structural metal products	–	102	52	6.0	82.9	4.6	9.2	56.1	186.2	213.2	403.0	7.6	5.2	90.5
3443	Fabricated plate work (boiler shops)	–	46	31	3.9	57.7	3.1	6.5	40.3	144.1	165.0	312.5	5.1	(NA)	(NA)
347	Metal services, n.e.c.	E1	28	9	0.5	5.1	0.4	0.9	3.4	8.0	4.4	12.4	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	43	20	2.7	39.3	1.8	3.8	24.5	78.4	59.6	143.2	7.8	(NA)	(NA)
35	Machinery, except electrical	–	246	65	12.9	158.4	6.8	13.5	77.7	356.3	344.8	682.2	31.6	8.8	157.5
353	Construction and related machinery	–	40	24	4.8	69.7	2.9	5.7	38.1	172.4	222.7	378.1	7.8	(NA)	(NA)
3559	Special industry machinery, n.e.c.	–	16	7	1.0	14.9	0.7	1.4	7.7	30.4	21.3	49.4	0.9	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	114	14	1.1	13.5	0.9	1.9	9.5	23.9	11.0	34.7	2.3	0.9	13.7
3599	Machinery, except electrical, n.e.c.	E2	114	14	1.1	13.5	0.9	1.9	9.5	23.9	11.0	34.7	2.3	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	54	8	1.0	8.9	0.9	1.5	6.3	27.5	23.0	49.8	(D)	1.0	19.9
--	Administrative and auxiliary	–	30	15	5.5	90.0	–	–	–	–	–	–	–	(NA)	(NA)
	Wagoner County	–	14	3	0.6	5.1	0.3	0.6	2.3	5.2	9.6	14.5	0.3	0.2	2.1
	Washington County	–	36	12	7.0	142.3	0.6	1.6	0.4	37.5	47.9	76.3	3.4	7.5	32.3
	Woodward County	–	17	3	0.5	4.1	0.5	0.9	3.2	6.8	7.6	16.9	0.2	0.5	3.8

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Rapresents zaro. (D) Withheld to avoid disclosing operations of individual companias. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Payroll and salas data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census raport forms. Thasa data wara then used in conjunction with industry avaragas to astimate tha balanca of itams shown for these small establishments. This technique was also used for a small number of othar astablishments whose reports wera not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figuras shown: E1—10 to 19 percent; E2—20 to 29 parcent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percant; E8—80 to 89 percent; E9—90 to 99 parcent; E0—100 percant.
[2]Aggregata of cost of materials and valua of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industrias ara used as matarials by othars (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includas cities with 450 amployees or more and industry groups and industries with 450 employees or mora within cities, excapt thosa that would disclose operations of individual companies. For explanation of tarms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or mora (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value addad by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Broken Arrow	-	83	15	1.3	18.4	0.9	1.8	9.5	36.1	35.5	87.4	1.8	0.9	14.3
35	Machinary, except electrical	-	18	4	0.7	9.2	0.4	0.9	5.1	19.6	17.0	32.5	0.9	(NA)	(NA)
	Claremore	-	18	8	0.7	7.1	0.5	0.9	3.6	14.1	13.7	27.4	(D)	(NA)	(NA)
	Cushing	-	17	5	0.8	7.4	0.5	0.9	5.7	8.2	76.2	91.5	3.8	0.5	9.4
	Del City	-	14	8	0.5	5.3	0.4	0.7	3.4	24.9	49.2	74.9	2.1	(NA)	(NA)
	Duncan	-	48	8	3.1	35.8	2.5	4.5	25.3	88.2	65.9	149.9	5.4	(D)	(D)
	Durant	-	23	10	1.0	9.1	0.8	1.5	6.8	21.3	23.7	44.3	0.6	(D)	(D)
	Edmond	-	28	7	0.9	10.2	0.7	1.3	7.2	53.7	76.5	130.1	1.1	0.5	9.7
	El Reno	-	20	8	0.5	4.4	0.3	0.6	2.5	9.7	16.5	25.9	(D)	(NA)	(NA)
	Idabel	-	14	5	0.8	4.3	0.5	0.9	3.5	7.4	12.9	20.7	0.6	(NA)	(NA)
	Lawton	-	59	14	1.5	13.0	1.0	1.9	7.0	25.2	34.1	59.2	3.3	(D)	(D)
	Miami	-	35	14	3.4	44.8	2.9	5.4	36.8	114.3	115.1	227.1	4.1	3.0	70.2
	Midwest City	-	24	5	0.8	8.1	0.5	1.0	4.3	11.5	24.4	35.4	2.0	0.8	10.4
	Muskogee	-	81	21	3.2	34.8	2.4	4.4	22.7	95.2	105.4	200.6	7.3	3.5	62.8
	Norman	-	59	12	1.4	16.7	1.0	1.9	9.9	35.8	57.5	92.3	1.0	1.4	27.1
	Oklahoma City	-	772	218	35.1	461.4	23.0	44.6	255.2	1 047.7	1 416.6	2 417.2	61.7	33.6	662.0
201	Meat products	-	15	8	1.7	26.0	1.3	2.8	16.9	36.9	247.9	267.4	1.1	(NA)	(NA)
205	Bakery products	-	5	4	0.7	11.0	0.4	0.9	5.2	17.9	21.4	39.2	1.7	(NA)	(NA)
2051	Bread, cake, and related products	-	5	4	0.7	11.0	0.4	0.9	5.2	17.9	21.4	39.2	1.7	(NA)	(NA)
27	Printing and publishing	-	147	19	3.3	36.9	1.9	3.3	20.7	64.0	46.9	134.2	4.1	(NA)	(NA)
275	Commercial printing	E1	95	12	1.2	14.9	1.0	1.6	10.7	26.6	23.3	50.8	1.3	(NA)	(NA)
2752	Commercial printing, lithographic	-	43	6	0.6	7.1	0.4	0.8	5.2	14.5	16.0	30.4	1.0	(NA)	(NA)
32	Stone, clay, and glass products	-	37	13	1.1	14.1	0.7	1.5	7.6	31.4	31.1	62.6	(D)	(NA)	(NA)
34	Fabricated metal products	-	94	36	5.0	81.7	3.2	8.6	34.7	136.0	129.1	262.4	10.3	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	-	8	4	0.5	6.1	0.4	0.7	4.2	9.6	7.2	18.4	(D)	(NA)	(NA)
35	Machinery, except electrical	-	125	34	5.1	67.4	3.4	6.9	35.4	122.1	135.6	255.0	6.0	(NA)	(NA)
353	Construction and related machinery	E1	29	11	1.2	17.6	0.6	1.4	8.1	41.5	21.2	60.7	2.6	(NA)	(NA)
--	Administrative and auxiliary	-	21	13	2.4	41.6	-	-	-	-	-	-	-	(NA)	(NA)
	Poteau	-	12	3	0.5	4.1	0.3	0.6	3.0	6.3	6.0	12.2	0.1	(NA)	(NA)
	Pryor Creek	-	34	20	2.1	24.2	1.8	3.3	17.5	55.2	79.6	135.6	8.9	0.8	19.5
	Sand Springs	-	37	18	1.6	25.5	1.4	3.0	17.4	66.5	67.0	132.0	3.4	1.9	41.0
34	Fabricated metal products	-	10	7	0.5	7.9	0.4	0.9	5.4	20.0	16.8	36.5	0.4	(NA)	(NA)
	Sapulpa	-	19	6	1.7	19.6	1.4	2.6	15.1	40.8	22.7	62.9	(D)	1.4	24.5
	Shawnee	-	44	16	1.9	19.9	1.5	2.6	12.9	43.7	71.0	112.1	(D)	(D)	(D)
	Stillwater	-	28	9	1.4	16.2	1.2	2.3	12.3	46.5	51.9	95.1	10.0	0.7	14.5

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Tulsa	-	**901**	**283**	**43.3**	**584.1**	**25.5**	**50.0**	**301.8**	**1 197.9**	**1 580.3**	**2 781.7**	**103.1**	**34.8**	533.0
27	Printing and publishing	-	133	17	2.4	28.6	1.5	2.7	15.5	85.8	27.4	93.0	5.0	(NA)	(NA)
275	Commercial printing	E3	78	7	0.6	7.0	0.5	1.0	5.3	11.8	9.7	21.3	1.0	(NA)	(NA)
2752	Commercial printing, lithographic	E2	46	7	0.6	8.3	0.5	0.9	4.8	10.2	8.7	18.9	1.0	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	28	10	1.0	9.6	0.8	1.6	6.8	29.6	22.4	51.8	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	-	24	8	0.8	7.8	0.6	1.3	5.3	28.6	20.1	46.4	1.2	(NA)	(NA)
34	Fabricated metal products	-	160	68	7.6	106.4	5.7	11.4	69.7	233.7	238.5	479.7	14.2	(NA)	(NA)
344	Fabricated structural metal products	-	79	39	4.5	62.9	3.8	7.1	43.4	153.5	170.1	325.8	5.9	(NA)	(NA)
3441	Fabricated structural metal	E1	14	7	0.8	10.0	0.6	1.0	6.3	17.3	18.5	35.8	1.3	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	-	36	22	3.3	47.9	2.7	5.5	33.9	127.0	143.3	272.7	4.3	(NA)	(NA)
349	Miscellaneous fabricated metal products	E1	41	17	2.4	35.1	1.5	3.2	20.9	66.2	55.8	127.6	7.5	(NA)	(NA)
3494	Valves and pipe fittings	-	13	8	1.7	24.1	1.0	2.2	13.6	47.4	38.4	91.1	5.9	(NA)	(NA)
35	Machinery, except electrical	-	208	59	11.0	132.4	5.8	11.3	65.1	283.1	247.5	521.5	28.4	7.9	138.0
353	Construction and related machinery	-	32	20	3.2	48.3	2.1	4.1	28.3	106.4	134.2	233.2	(D)	(NA)	(NA)
355	Special industry machinery	-	20	7	1.1	15.2	0.7	1.4	7.8	31.6	21.7	51.0	0.9	(NA)	(NA)
3559	Special industry machinery, n.e.c.	-	16	7	1.1	15.0	0.7	1.4	7.7	30.6	21.4	49.7	0.9	(NA)	(NA)
356	General industrial machinery	-	39	12	2.0	26.8	1.2	2.1	13.1	83.8	45.7	130.4	1.8	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	92	14	1.1	12.5	0.9	1.8	8.8	22.2	10.3	32.3	2.0	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E2	92	14	1.1	12.5	0.9	1.8	8.8	22.2	10.3	32.3	2.0	(NA)	(NA)
36	Electric and electronic equipment	-	44	16	2.9	32.0	2.1	4.0	19.3	58.6	58.9	115.3	5.0	(NA)	(NA)
38	Instruments and related products	E1	38	7	0.6	6.6	0.4	0.7	3.5	15.6	9.9	25.1	0.8	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	48	8	1.0	8.8	0.8	1.5	6.2	27.2	22.5	49.1	2.5	(NA)	(NA)
--	Administrative and auxiliary	-	30	15	5.5	90.0	-	-	-	-	-	-	-	(NA)	(NA)
	Wewoka	-	**15**	**7**	**0.8**	**5.5**	**0.8**	**1.1**	**4.1**	**11.4**	**8.2**	**19.1**	**0.1**	**0.8**	**2.7**
23	Apparel and other textile products	E2	4	3	0.6	3.7	0.5	0.9	3.2	8.0	6.2	13.7	0.1	(NA)	(NA)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
OKLAHOMA	3818	328	1	19	135	183	95	38	636	104	49	104	28	300	82	448	650	121	184	80	160	73
1 TO 4 EMPLOYEES	1716	125	1	5	41	81	49	8	414	55	17	38	11	135	21	137	303	48	81	36	100	10
5 TO 9 EMPLOYEES	533	44	-	1	8	38	16	4	74	16	6	16	3	44	11	77	96	17	22	13	21	6
10 TO 19 EMPLOYEES	502	39	-	1	7	25	14	8	70	12	4	10	6	58	6	63	97	9	22	10	19	22
20 TO 49 EMPLOYEES	488	48	-	3	17	23	8	8	50	11	5	16	2	35	15	90	79	17	23	11	15	12
50 TO 99 EMPLOYEES	229	36	-	1	21	7	3	4	12	4	2	7	4	9	12	38	23	8	21	4	2	11
100 TO 249 EMPLOYEES	212	24	-	5	27	7	4	5	11	6	8	10	2	11	11	27	29	11	5	4	2	3
250 TO 499 EMPLOYEES	87	9	-	3	13	2	-	1	3	-	5	4	-	4	5	10	12	7	4	1	-	4
500 TO 999 EMPLOYEES	37	2	-	-	1	-	1	-	1	-	2	-	-	4	1	6	8	3	3	1	1	3
1000 TO 2499 EMPLOYEES	10	1	-	-	-	-	-	-	1	-	-	3	-	-	-	-	2	-	3	-	-	-
2500 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	2
ADAIR COUNTY	20	10	-	-	1	-	-	-	5	-	-	-	-	1	-	-	-	2	-	1	-	-
1 TO 19 EMPLOYEES	15	7	-	-	1	-	-	-	5	-	-	-	-	1	-	-	-	-	-	1	-	-
20 TO 99 EMPLOYEES	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
ALFALFA COUNTY	7	-	-	-	-	-	-	1	2	-	-	-	-	1	-	-	2	-	-	-	1	-
1 TO 19 EMPLOYEES	7	-	-	-	-	-	-	1	2	-	-	-	-	1	-	-	2	-	-	-	1	-
ATOKA COUNTY	11	-	-	-	1	4	1	-	2	-	-	-	-	2	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	9	-	-	-	-	4	-	-	2	-	-	-	-	2	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BEAVER COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
BECKHAM COUNTY	18	5	-	-	1	-	-	-	4	-	-	-	-	4	-	-	2	1	-	-	-	1
1 TO 19 EMPLOYEES	13	3	-	-	-	-	-	-	3	-	-	-	-	3	-	-	2	1	-	-	-	1
20 TO 99 EMPLOYEES	5	2	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
BLAINE COUNTY	15	2	-	1	-	1	1	-	2	1	1	-	-	5	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	12	1	-	-	-	1	1	-	2	1	1	-	-	4	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
BRYAN COUNTY	36	10	-	-	3	3	-	-	6	-	-	1	1	4	-	1	2	-	5	-	-	-
1 TO 19 EMPLOYEES	21	6	-	-	1	2	-	-	5	-	-	-	1	4	-	-	-	-	2	-	-	-
20 TO 99 EMPLOYEES	12	3	-	-	2	1	-	-	1	-	-	1	-	-	-	1	-	-	3	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
CADDO COUNTY	17	1	-	1	2	-	1	-	5	-	1	-	-	4	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	14	1	-	-	2	-	1	-	4	-	-	-	-	4	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANADIAN COUNTY	43	5	-	-	-	1	1	-	9	2	-	1	-	1	-	2	7	1	8	4	1	-
1 TO 19 EMPLOYEES	33	4	-	-	-	1	1	-	8	1	-	1	-	-	-	1	5	1	7	2	1	-
20 TO 99 EMPLOYEES	8	1	-	-	-	-	-	-	1	1	-	-	-	1	-	1	1	-	-	2	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
CARTER COUNTY	47	9	-	-	2	1	-	-	4	1	2	4	1	5	-	3	5	1	1	1	4	3
1 TO 19 EMPLOYEES	28	3	-	-	-	1	-	-	3	1	-	2	1	4	-	1	5	-	1	-	4	2
20 TO 99 EMPLOYEES	12	5	-	-	1	-	-	-	1	-	-	1	-	1	-	1	-	-	-	1	-	1
100 TO 249 EMPLOYEES	5	1	-	-	1	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-
CHEROKEE COUNTY	16	1	-	-	2	2	-	-	4	-	-	-	-	4	-	1	1	1	-	-	-	-
1 TO 19 EMPLOYEES	14	1	-	-	-	2	-	-	4	-	-	-	-	4	-	1	1	1	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHOCTAW COUNTY	15	1	-	-	2	5	-	-	2	1	-	-	1	-	-	-	2	-	1	-	-	-
1 TO 19 EMPLOYEES	12	1	-	-	-	5	-	-	2	1	-	-	-	-	-	-	2	-	1	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
CIMARRON COUNTY	2	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLEVELAND COUNTY	78	5	-	-	1	1	-	1	21	-	1	2	-	7	3	6	13	3	5	1	6	2
1 TO 19 EMPLOYEES	64	4	-	-	1	1	-	1	19	-	1	2	-	6	2	5	10	1	4	1	4	2
20 TO 99 EMPLOYEES	12	1	-	-	-	-	-	-	1	-	-	-	-	1	1	1	2	2	1	-	2	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
COAL COUNTY	4	2	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COMANCHE COUNTY	65	12	-	-	4	1	5	1	17	3	1	-	-	4	-	4	5	1	1	1	4	1
1 TO 19 EMPLOYEES	51	8	-	-	2	1	5	1	15	3	1	-	-	2	-	3	4	1	1	-	3	1
20 TO 99 EMPLOYEES	9	1	-	-	1	-	-	-	1	-	-	-	-	2	-	1	1	-	-	1	1	-
100 TO 249 EMPLOYEES	4	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COTTON COUNTY	5	-	-	-	1	-	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRAIG COUNTY	13	2	-	-	1	-	-	-	2	1	-	-	-	2	-	-	1	1	1	-	1	1
1 TO 19 EMPLOYEES	9	1	-	-	-	-	-	-	1	1	-	-	-	2	-	-	1	-	1	-	1	1
20 TO 99 EMPLOYEES	3	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
CREEK COUNTY	63	5	-	1	1	-	-	-	8	-	-	1	-	12	2	11	13	1	6	1	1	-
1 TO 19 EMPLOYEES	42	4	-	-	-	-	-	-	7	-	-	1	-	8	-	6	11	1	3	-	1	-
20 TO 99 EMPLOYEES	14	1	-	1	-	-	-	-	1	-	-	-	-	1	2	3	1	-	3	1	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	1	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
CUSTER COUNTY	30	8	-	2	1	-	-	-	7	-	-	1	1	4	-	1	2	-	-	1	2	-
1 TO 19 EMPLOYEES	22	6	-	-	-	-	-	-	6	-	-	1	1	3	-	1	2	-	-	-	2	-
20 TO 99 EMPLOYEES	4	1	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
DELAWARE COUNTY	20	2	-	-	-	1	-	-	5	1	-	1	-	2	-	-	4	-	4	-	-	-
1 TO 19 EMPLOYEES	17	1	-	-	-	-	-	-	5	1	-	1	-	2	-	-	4	-	3	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEWEY COUNTY	7	1	-	-	-	-	-	-	3	-	-	-	-	2	-	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	-	-	-	3	-	-	-	-	2	-	-	-	1	-	-	-	-
ELLIS COUNTY	5	1	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	1
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
GARFIELD COUNTY	78	9	-	-	4	2	-	-	12	4	6	4	-	3	1	8	18	1	2	-	1	3
1 TO 19 EMPLOYEES	60	4	-	-	4	1	-	-	10	3	4	4	-	3	1	7	15	1	1	-	1	1
20 TO 99 EMPLOYEES	9	3	-	-	-	1	-	-	1	-	1	-	-	-	-	1	-	-	1	-	-	1
100 TO 249 EMPLOYEES	5	2	-	-	-	-	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	1
GARVIN COUNTY	28	2	-	-	3	1	-	-	5	1	1	-	-	2	-	1	4	2	3	-	3	-
1 TO 19 EMPLOYEES	17	1	-	-	1	1	-	-	4	1	-	-	-	1	-	1	3	-	2	-	2	-
20 TO 99 EMPLOYEES	8	1	-	-	1	-	-	-	1	-	-	-	-	1	-	-	1	1	1	-	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
GRADY COUNTY	58	9	-	1	1	2	2	-	6	-	-	-	-	1	-	6	5	2	20	-	3	-
1 TO 19 EMPLOYEES	35	7	-	1	-	1	1	-	5	-	-	-	-	1	-	5	2	-	10	-	2	-
20 TO 99 EMPLOYEES	16	1	-	-	1	-	1	-	1	-	-	-	-	-	-	-	3	1	8	-	-	-
100 TO 249 EMPLOYEES	5	1	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
GRANT COUNTY	8	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	3	-	1	-	1	-
1 TO 19 EMPLOYEES	8	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	3	-	1	-	1	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
GREER COUNTY	6	1	-	-	-	-	-	-	2	-	-	-	-	2	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
HARMON COUNTY	4	1	-	-	-	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARPER COUNTY	3	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
HASKELL COUNTY	4	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HUGHES COUNTY	6	-	-	-	1	1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JACKSON COUNTY	17	3	-	-	2	-	-	-	5	-	-	-	-	1	-	1	2	-	2	1	-	-
1 TO 19 EMPLOYEES	14	2	-	-	1	-	-	-	4	-	-	-	-	1	-	1	2	-	2	1	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JEFFERSON COUNTY	11	-	-	-	2	2	-	-	2	-	-	-	1	1	-	1	1	-	1	-	-	-
1 TO 19 EMPLOYEES	8	-	-	-	1	1	-	-	2	-	-	-	1	1	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JOHNSTON COUNTY	8	-	-	-	1	-	-	-	2	-	-	-	-	1	-	-	1	-	3	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	3	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
KAY COUNTY	78	8	-	-	3	2	3	2	9	1	1	1	-	7	5	9	19	2	2	2	2	-
1 TO 19 EMPLOYEES	50	6	-	-	1	2	3	-	7	-	-	1	-	7	1	5	11	-	2	2	2	-
20 TO 99 EMPLOYEES	23	2	-	-	2	-	-	2	2	1	-	-	-	-	3	3	6	2	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
KINGFISHER COUNTY	15	2	-	-	-	-	1	-	3	-	-	-	-	5	-	-	3	-	1	-	-	-
1 TO 19 EMPLOYEES	14	2	-	-	-	-	1	-	3	-	-	-	-	5	-	-	2	-	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
KIOWA COUNTY	13	-	-	-	-	-	-	-	5	-	-	-	-	5	-	1	2	-	-	-	-	-
1 TO 19 EMPLOYEES	12	-	-	-	-	-	-	-	5	-	-	-	-	5	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
LATIMER COUNTY	4	1	-	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE FLORE COUNTY	38	3	-	1	2	8	6	-	2	-	-	-	-	9	-	2	4	1	-	-	-	-
1 TO 19 EMPLOYEES	32	3	-	-	1	7	5	-	2	-	-	-	-	8	-	2	4	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
LINCOLN COUNTY	28	3	-	-	2	-	-	-	4	-	4	-	1	4	1	2	1	1	4	-	1	-
1 TO 19 EMPLOYEES	21	3	-	-	1	-	-	-	4	-	2	-	1	3	1	-	1	-	4	-	1	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	1	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
LOGAN COUNTY	21	-	-	1	1	1	3	-	7	1	-	-	-	1	-	2	2	-	1	-	1	-
1 TO 19 EMPLOYEES	16	-	-	1	1	-	2	-	6	-	-	-	-	1	-	2	2	-	-	-	1	-
20 TO 99 EMPLOYEES	3	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
LOVE COUNTY	4	1	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
MC CLAIN COUNTY	10	2	-	-	2	-	-	-	2	-	-	1	-	-	-	1	-	1	-	-	1	-
1 TO 19 EMPLOYEES	7	2	-	-	-	-	-	-	2	-	-	1	-	-	-	1	-	-	-	-	1	-
20 TO 99 EMPLOYEES	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
MC CURTAIN COUNTY	66	3	-	-	2	43	-	3	6	-	-	-	-	2	-	3	2	-	-	-	-	2
1 TO 19 EMPLOYEES	48	2	-	-	-	32	-	1	6	-	-	-	-	2	-	2	2	-	-	-	-	1
20 TO 99 EMPLOYEES	10	-	-	-	1	7	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
100 TO 249 EMPLOYEES	3	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	1	-	-	1	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC INTOSH COUNTY	8	-	-	-	2	-	-	-	1	-	-	-	-	2	1	-	-	-	1	-	1	-
1 TO 19 EMPLOYEES	6	-	-	-	1	-	-	-	1	-	-	-	-	2	-	-	-	-	1	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAJOR COUNTY	8	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	2	1	2	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	1	2	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
MARSHALL COUNTY	12	-	-	1	1	1	-	-	1	-	-	-	-	3	-	-	1	-	4	-	-	-
1 TO 19 EMPLOYEES	9	-	-	1	-	1	-	-	1	-	-	-	-	3	-	-	1	-	2	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
MAYES COUNTY	50	3	-	1	2	1	2	4	3	7	-	2	-	5	1	8	7	1	1	-	2	-
1 TO 19 EMPLOYEES	25	1	-	-	-	-	2	1	3	3	-	-	-	4	-	4	3	1	1	-	2	-
20 TO 99 EMPLOYEES	17	2	-	-	1	1	-	2	-	1	-	2	-	-	-	4	4	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	-	1	-	-	1	-	3	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
MURRAY COUNTY	7	1	-	-	-	-	-	-	2	-	-	-	-	1	-	1	1	-	-	-	-	1
1 TO 19 EMPLOYEES	7	1	-	-	-	-	-	-	2	-	-	-	-	1	-	1	1	-	-	-	-	1
MUSKOGEE COUNTY	93	18	-	-	1	-	4	1	12	1	1	1	1	10	3	12	13	1	3	4	6	1
1 TO 19 EMPLOYEES	67	11	-	-	1	-	2	-	11	1	1	-	1	7	1	8	11	-	3	3	6	-
20 TO 99 EMPLOYEES	13	5	-	-	-	-	2	-	-	-	-	-	-	1	1	2	-	1	-	-	-	1
100 TO 249 EMPLOYEES	9	2	-	-	-	-	-	1	1	-	-	1	-	-	1	2	-	-	-	1	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-	-
NOBLE COUNTY	8	2	-	-	1	-	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-	1
1 TO 19 EMPLOYEES	6	2	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	1
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
NOWATA COUNTY	12	2	-	-	1	1	-	-	1	-	-	-	-	2	1	-	3	1	-	-	-	-
1 TO 19 EMPLOYEES	9	2	-	-	-	1	-	-	1	-	-	-	-	2	-	-	2	1	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
OKFUSKEE COUNTY	11	-	-	-	2	1	1	-	2	-	-	-	-	-	-	1	1	2	-	1	-	-
1 TO 19 EMPLOYEES	8	-	-	-	-	1	1	-	2	-	-	-	-	-	-	1	1	2	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OKLAHOMA COUNTY	886	65	-	3	23	36	30	13	178	29	11	28	8	47	9	108	136	32	41	20	47	22
1 TO 19 EMPLOYEES	645	28	-	1	15	27	23	6	157	26	8	18	7	32	6	69	104	24	28	16	41	9
20 TO 99 EMPLOYEES	169	24	-	1	4	8	6	7	14	3	2	6	1	11	3	28	24	3	8	2	6	8
100 TO 249 EMPLOYEES	41	7	-	1	4	1	1	-	4	-	1	2	-	4	-	4	5	3	-	2	-	2
250 EMPLOYEES AND OVER	31	6	-	-	-	-	-	-	3	-	-	2	-	-	-	7	3	2	5	-	-	3
OKMULGEE COUNTY	33	3	-	-	-	5	1	-	7	1	2	2	-	4	1	2	4	-	1	-	-	-
1 TO 19 EMPLOYEES	23	2	-	-	-	5	1	-	6	-	1	1	-	2	-	2	2	-	1	-	-	-
20 TO 99 EMPLOYEES	7	1	-	-	-	-	-	-	1	1	-	1	-	-	1	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
OSAGE COUNTY	39	1	-	1	2	-	-	-	8	-	1	1	1	3	1	8	7	1	-	1	2	1
1 TO 19 EMPLOYEES	32	1	-	-	-	-	-	-	8	-	-	1	1	3	1	7	6	-	-	1	2	1
20 TO 99 EMPLOYEES	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
OTTAWA COUNTY	66	5	-	1	3	4	-	-	5	1	1	1	3	6	3	8	16	1	4	-	4	-
1 TO 19 EMPLOYEES	47	3	-	1	-	4	-	-	4	1	-	-	1	5	-	6	15	1	2	-	4	-
20 TO 99 EMPLOYEES	13	2	-	-	-	-	-	-	1	-	1	-	2	1	2	1	1	-	2	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	2	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
PAWNEE COUNTY	8	1	-	-	1	-	-	-	2	1	-	1	-	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	-	-	-	2	1	-	1	-	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAYNE COUNTY	53	4	-	-	1	2	1	-	12	2	2	2	-	3	2	3	10	4	4	-	1	-
1 TO 19 EMPLOYEES	38	2	-	-	1	2	1	-	9	2	1	1	-	1	-	2	9	3	3	-	1	-
20 TO 99 EMPLOYEES	8	2	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	1	1	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	1	-	-	-	2	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	-	-	-
PITTSBURG COUNTY	25	7	-	-	2	-	-	-	7	-	-	1	-	4	-	2	-	1	-	1	-	-
1 TO 19 EMPLOYEES	17	6	-	-	-	-	-	-	5	-	-	-	-	4	-	1	-	-	-	1	-	-
20 TO 99 EMPLOYEES	4	1	-	-	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
PONTOTOC COUNTY	34	8	-	-	2	2	1	-	3	1	-	3	-	4	-	-	7	-	1	-	2	-
1 TO 19 EMPLOYEES	20	4	-	-	1	2	1	-	2	1	-	-	-	1	-	-	6	-	-	-	2	-
20 TO 99 EMPLOYEES	9	4	-	-	-	-	-	-	1	-	-	1	-	1	-	-	1	-	1	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-
POTTAWATOMIE COUNTY	50	7	-	-	3	3	-	1	6	2	2	2	1	6	2	4	5	2	3	-	1	-
1 TO 19 EMPLOYEES	34	3	-	-	1	3	-	1	4	2	2	-	1	6	1	3	3	1	2	-	1	-
20 TO 99 EMPLOYEES	10	3	-	-	1	-	-	-	2	-	-	1	-	-	-	1	1	-	1	-	-	-
100 TO 249 EMPLOYEES	4	1	-	-	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-
PUSHMATAHA COUNTY	8	1	-	-	1	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	7	1	-	-	-	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROGER MILLS COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
ROGERS COUNTY	38	2	-	-	-	3	-	-	3	1	-	1	1	4	1	8	11	-	3	-	-	-
1 TO 19 EMPLOYEES	20	2	-	-	-	2	-	-	2	-	-	1	-	2	1	3	6	-	1	-	-	-
20 TO 99 EMPLOYEES	12	-	-	-	-	1	-	-	1	-	-	-	1	1	-	4	3	-	1	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	1	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
SEMINOLE COUNTY	36	3	-	-	6	-	1	-	7	2	1	1	-	3	1	2	3	1	1	-	3	1
1 TO 19 EMPLOYEES	23	2	-	-	1	-	1	-	7	2	1	1	-	1	1	1	3	-	-	-	2	-
20 TO 99 EMPLOYEES	7	1	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	1	-	-	1	1
100 TO 249 EMPLOYEES	4	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEQUOYAH COUNTY	29	2	-	-	-	2	11	-	1	3	-	2	-	3	-	1	2	1	1	-	-	-
1 TO 19 EMPLOYEES	22	2	-	-	-	1	10	-	-	2	-	1	-	2	-	1	2	1	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	1	1	-	1	-	-	1	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
STEPHENS COUNTY	62	3	-	-	1	-	-	-	8	1	1	-	-	5	2	4	30	1	4	-	1	1
1 TO 19 EMPLOYEES	53	2	-	-	-	-	-	-	7	1	-	-	-	5	1	4	27	1	3	-	1	1
20 TO 99 EMPLOYEES	6	1	-	-	-	-	-	-	1	-	-	-	-	-	1	-	2	-	1	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-
TEXAS COUNTY	12	5	-	-	-	1	-	-	4	-	-	-	-	-	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	8	3	-	-	-	1	-	-	3	-	-	-	-	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
TILLMAN COUNTY	15	1	-	-	2	1	-	-	4	-	-	-	2	2	-	-	1	-	2	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	-	1	-	-	4	-	-	-	-	1	-	-	-	-	2	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	1	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
TULSA COUNTY	1068	43	-	3	20	27	18	10	146	31	7	38	5	48	36	194	246	46	28	38	54	30
1 TO 19 EMPLOYEES	751	30	-	2	13	20	16	7	127	24	3	24	4	35	17	107	181	30	19	31	46	15
20 TO 99 EMPLOYEES	222	7	-	1	6	7	-	1	16	7	2	9	1	10	11	65	42	8	7	6	6	10
100 TO 249 EMPLOYEES	54	3	-	-	1	-	2	2	1	-	-	5	-	1	5	14	13	4	-	1	1	1
250 EMPLOYEES AND OVER	41	3	-	-	-	-	-	-	2	-	2	-	-	2	3	8	10	4	2	-	1	4
WAGONER COUNTY	14	-	-	-	-	3	-	-	1	1	-	-	-	2	1	3	1	2	-	-	-	-
1 TO 19 EMPLOYEES	11	-	-	-	-	3	-	-	1	1	-	-	-	2	1	2	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
WASHINGTON COUNTY	36	4	1	-	-	2	-	-	5	-	1	1	-	3	3	4	5	-	4	2	-	1
1 TO 19 EMPLOYEES	24	3	1	-	-	2	-	-	3	-	1	1	-	3	1	3	4	-	2	-	-	-
20 TO 99 EMPLOYEES	8	1	-	-	-	-	-	-	1	-	-	-	-	-	1	1	1	-	2	1	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1
WASHITA COUNTY	16	-	-	-	3	-	-	-	2	-	-	-	-	3	1	2	1	-	2	-	2	-
1 TO 19 EMPLOYEES	14	-	-	-	2	-	-	-	2	-	-	-	-	3	1	2	1	-	1	-	2	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WOODS COUNTY	14	2	-	-	-	-	1	-	4	3	-	-	-	3	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	13	2	-	-	-	-	1	-	4	3	-	-	-	2	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
WOODWARD COUNTY	17	4	-	-	3	-	-	-	3	-	-	-	-	3	-	-	3	-	1	-	-	-
1 TO 19 EMPLOYEES	14	4	-	-	1	-	-	-	2	-	-	-	-	3	-	-	3	-	1	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction .

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

Oregon

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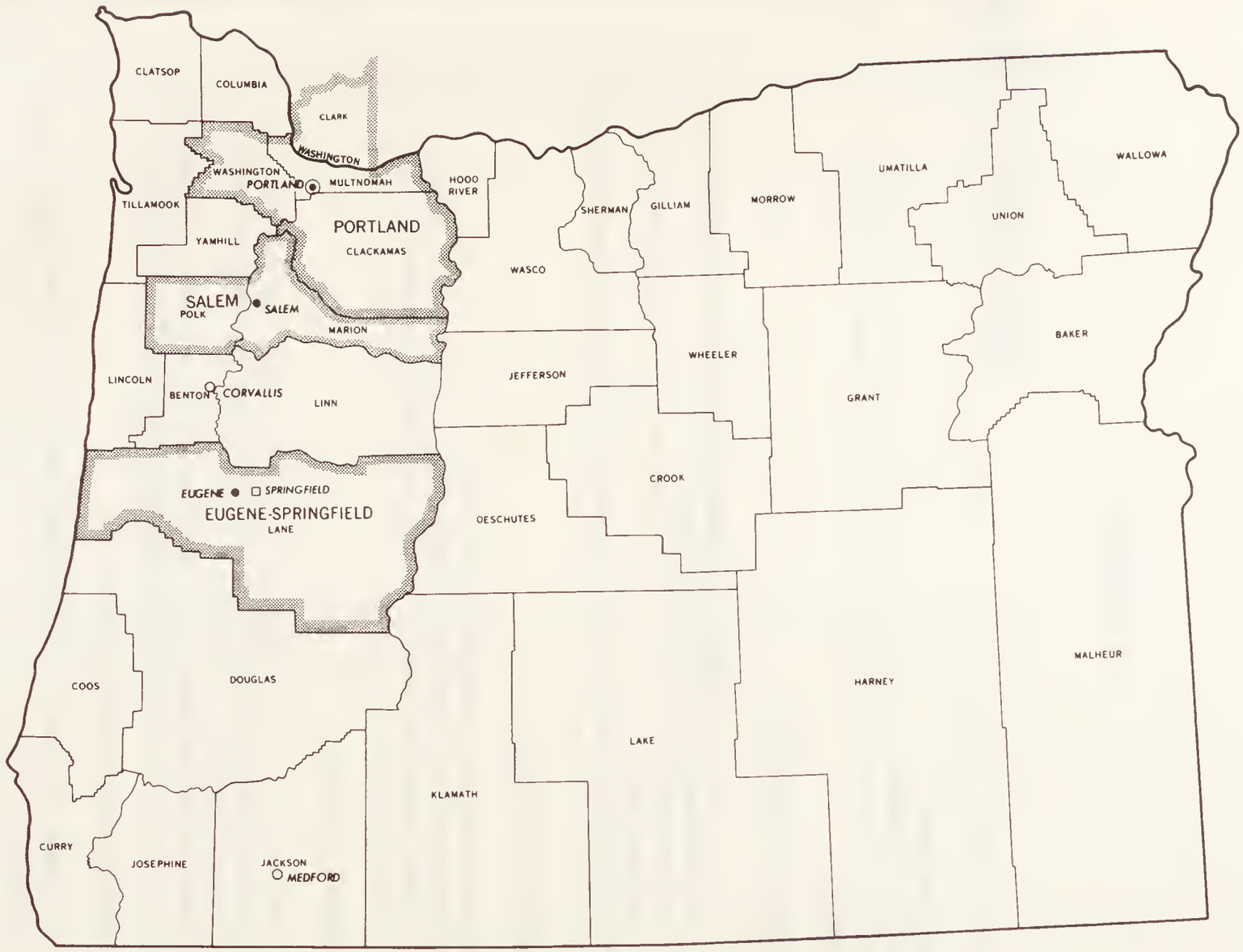
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OREGON



LEGEND

- ⊙ Places of 100,000 or more inhabitants
- ● Places of 50,000 to 100,000 inhabitants
- □ Central cities of SMSA's with fewer than 50,000 inhabitants
- ○ Places of 25,000 to 50,000 inhabitants outside SMSA's

Standard Metropolitan Statistical Areas (SMSA's)

SCALE

0 10 20 30 40 50 MILES

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 202.4 thousand persons were employed in Oregon's manufacturing establishments. This figure represented an increase of 13 percent from the 1972 figure of 178.6 thousand workers.

The total value added by manufacture for the State amounted to $6,138 million in 1977, an increase of approximately 76 percent from the 1972 figure of $3,490 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were lumber and wood products; food and kindred products; machinery, except electrical; and instruments and related products. They accounted for approximately 62 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 64 percent of the State's employment.

The most important counties in the State ranked by employment were Multnomah, Washington, Lane, and Clackamas. They accounted for approximately 53 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 53 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 5 percent of the total value of shipments.

BUREAU OF THE CENSUS

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Oregon:						
1977	202.4	2,760.0	197.0	2,657.4	5.4	102.6
1972	178.6	1,627.3	173.7	1,565.2	4.9	62.1
1967	163.1	1,082.5	160.4	1,059.3	2.7	23.2
1963	145.2	819.6	143.1	803.0	2.0	16.6
STANDARD METROPOLITAN STATISTICAL AREAS						
Eugene-Springfield:						
1977	20.4	283.7	20.0	276.5	.4	7.2
1972	19.5	185.4	19.3	182.4	.2	3.0
1967	18.2	120.4	(D)	(D)	(D)	(D)
1963	18.3	100.9	(D)	(D)	(D)	(D)
Portland, Oreg.-Wash:						
1977	99.4	1,392.1	94.7	1,302.7	4.7	89.4
1972	86.4	808.9	82.4	757.8	4.0	51.1
1967	79.8	561.0	77.4	540.2	2.4	20.8
1963	65.3	392.8	63.3	377.0	1.9	15.8
Salem:						
1977	15.3	177.7	15.2	176.6	.1	1.1
1972	12.1	92.9	12.1	92.9	-	-
1967	9.5	55.5	9.5	55.5	-	-

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
	OREGON														
1977 CENSUS.	5 716	1 580	202.4	2 760.0	155.1	291.6	1 901.7	6 138.0	8 317.0	14 370.0	574.5	1.03	100	100	19 596.9
1976 ASM....	(NA)	(NA)	187.8	2 371.4	145.2	272.5	1 674.7	5 392.2	6 925.1	12 299.2	378.2	1.00	93	96	18 753.0
1975 ASM....	(NA)	(NA)	180.8	2 037.7	137.7	252.7	1 423.5	4 437.4	5 903.6	10 310.8	439.3	.99	89	94	18 302.2
1974 ASM....	(NA)	(NA)	191.7	1 965.8	150.9	282.4	1 395.3	4 498.3	5 557.8	9 899.7	412.7	.97	95	102	19 844.8
1973 ASM....	(NA)	(NA)	192.1	1 863.2	149.8	298.4	1 320.9	4 284.0	4 820.9	9 067.0	332.6	.97	95	102	19 897.9
1972 CENSUS.	4 670	1 461	178.6	1 627.3	141.5	271.3	1 170.0	3 489.9	4 104.3	7 571.2	267.3	.94	88	98	19 028.7
1971 ASM....	(NA)	(NA)	169.4	1 406.8	131.9	252.8	1 011.7	2 806.6	3 390.0	6 183.0	232.3	.92	84	94	18 363.1
1970 ASM....	(NA)	(NA)	169.2	1 292.6	131.8	249.5	929.8	2 508.2	3 041.0	5 521.6	226.1	.88	84	99	19 217.2
1969 ASM....	(NA)	(NA)	173.5	1 260.3	139.3	266.6	923.5	2 612.8	3 181.4	5 730.1	255.6	.87	86	103	20 035.5
1968 ASM....	(NA)	(NA)	167.2	1 170.2	135.2	263.1	868.0	2 452.9	2 910.4	5 322.2	198.4	.86	83	100	19 527.6
1967 CENSUS.	4 437	1 275	163.1	1 082.5	131.2	254.8	798.2	2 060.5	2 552.2	4 612.2	234.2	.84	81	99	19 323.2
1966 ASM....	(NA)	(NA)	160.9	1 029.9	128.7	252.0	767.8	1 992.3	2 450.1	4 404.4	284.1	.85	79	98	19 024.5
1965 ASM....	(NA)	(NA)	153.6	944.9	123.7	242.2	712.2	1 817.3	2 344.9	4 134.6	230.5	.85	76	92	18 010.2
1964 ASM....	(NA)	(NA)	148.5	893.9	120.2	237.3	672.6	1 698.9	2 213.3	3 892.7	141.5	.86	73	89	17 268.5
1963 CENSUS.	4 881	1 225	145.2	819.6	117.6	226.4	617.1	1 574.8	(NA)	(NA)	132.0	.86	72	87	16 958.4
	PORTLAND, OREG.-WASH., SMSA														
1977 CENSUS.	2 440	724	99.4	1 392.1	67.9	126.4	815.4	2 951.6	3 623.4	6 544.8	236.4	.51	100	100	19 596.9
1976 ASM....	(NA)	(NA)	93.2	1 211.4	64.4	118.0	740.1	2 548.5	3 198.8	5 724.6	173.3	.50	94	96	18 753.0
1975 ASM....	(NA)	(NA)	90.5	1 074.4	60.6	111.0	645.4	2 186.6	2 863.3	5 015.5	149.3	.49	91	94	18 302.2
1974 ASM....	(NA)	(NA)	96.0	1 035.7	68.3	126.6	645.2	2 129.2	2 780.0	4 803.3	167.0	.48	97	102	19 844.8
1973 ASM....	(NA)	(NA)	94.9	957.7	67.3	127.3	594.2	1 862.5	2 301.7	4 144.0	95.8	.48	95	102	19 897.9
1972 CENSUS.	2 009	671	86.4	808.9	62.4	117.9	512.4	1 596.9	1 896.3	3 467.1	92.9	.45	87	98	19 028.7
1971 ASM....	(NA)	(NA)	86.5	727.6	61.2	115.3	458.4	1 365.2	1 619.3	2 972.7	81.1	.47	87	94	18 363.1
1970 ASM....	(NA)	(NA)	86.8	672.3	61.2	115.8	424.4	1 318.3	1 503.2	2 791.0	95.2	.45	87	99	19 217.2
1969 ASM....	(NA)	(NA)	85.5	646.9	62.4	118.6	419.4	1 300.4	1 521.8	2 810.6	95.6	.43	86	103	20 035.5
1968 ASM....	(NA)	(NA)	82.0	596.7	60.0	115.7	392.1	1 204.1	1 420.9	2 596.9	74.5	.42	82	100	19 527.6
1967 CENSUS.	1 826	563	79.8	561.0	58.4	113.9	368.4	1 115.4	1 304.2	2 420.5	77.0	.41	80	99	19 323.2
1966 ASM....	(NA)	(NA)	76.9	525.6	56.0	110.4	348.1	1 036.9	1 277.5	2 298.9	80.0	.40	77	98	19 024.5
1965 ASM....	(NA)	(NA)	70.2	463.6	51.4	100.4	306.5	912.3	1 185.4	2 083.7	55.7	.39	71	92	18 010.2
1964 ASM....	(NA)	(NA)	67.4	425.4	49.3	96.5	279.8	829.9	1 067.9	1 890.7	46.5	.39	68	89	17 268.5
1963 CENSUS.	1 863	519	65.3	392.8	47.5	92.4	258.6	768.2	(NA)	(NA)	48.9	.39	66	87	16 958.4

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll aa percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	OREGON								
1977 CENSUS	13 635	77	1 881	6.52	58	77	30 323	45	21.05
1976 ASM	12 627	77	1 877	6.15	56	76	28 712	44	19.79
1975 ASM	11 270	76	1 835	5.63	57	77	24 543	46	17.56
1974 ASM	10 255	79	1 871	4.94	56	76	23 465	44	15.93
1973 ASM	9 699	78	1 992	4.43	53	74	22 301	43	14.36
1972 CENSUS	9 111	79	1 917	4.31	54	76	19 540	47	12.86
1971 ASM	8 305	78	1 917	4.00	55	78	16 568	50	11.10
1970 ASM	7 639	78	1 893	3.73	55	78	14 824	52	10.05
1969 ASM	7 264	80	1 914	3.46	56	78	15 059	48	9.80
1968 ASM	6 999	81	1 946	3.30	55	77	14 670	48	9.32
1967 CENSUS	6 637	80	1 942	3.13	55	79	12 633	53	8.09
1966 ASM	6 401	80	1 958	3.05	56	79	12 382	52	7.91
1965 ASM	6 152	81	1 958	2.94	57	80	11 831	52	7.50
1964 ASM	6 020	81	1 974	2.83	57	80	11 440	53	7.16
1963 CENSUS	5 644	81	1 925	2.73	(NA)	(NA)	10 846	52	6.96
	PORTLAND, OREG.-WASH., SMSA								
1977 CENSUS	14 005	68	1 862	6.45	55	77	29 694	47	23.35
1976 ASM	12 998	69	1 832	6.27	56	77	27 344	48	21.60
1975 ASM	11 872	67	1 832	5.81	57	79	24 161	49	19.70
1974 ASM	10 789	71	1 854	5.10	58	79	22 179	49	16.82
1973 ASM	10 092	71	1 892	4.67	56	79	19 626	51	14.63
1972 CENSUS	9 362	72	1 889	4.35	55	78	18 483	51	13.54
1971 ASM	8 412	71	1 884	3.98	54	79	15 783	53	11.84
1970 ASM	7 745	71	1 892	3.66	54	78	15 188	51	11.38
1969 ASM	7 566	73	1 901	3.54	54	77	15 209	50	10.96
1968 ASM	7 277	73	1 928	3.39	55	78	14 684	50	10.41
1967 CENSUS	7 030	73	1 950	3.23	54	77	13 977	50	9.79
1966 ASM	6 835	73	1 971	3.15	56	78	13 484	51	9.39
1965 ASM	6 604	73	1 953	3.05	57	79	12 996	51	9.09
1964 ASM	6 312	73	1 957	2.90	56	79	12 313	51	8.60
1963 CENSUS	6 015	73	1 945	2.80	(NA)	(NA)	11 764	51	8.31

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	5 718	4 670
With 1 to 19 employees	do	4 136	3 209
With 20 to 99 employees	do	1 108	1 026
With 100 employees or more	do	472	435
All employees, average for year[1]	1,000	202.4	178.6
Payroll for year, all employees[1]	mil. dollars	2 760.0	1 627.3
Production workers:			
Average for year	1,000	155.1	141.5
March	do	144.5	131.4
May	do	148.9	136.4
August	do	168.4	154.9
November	do	157.9	143.3
Hours	millions	291.6	271.3
January to March	do	68.7	63.3
April to June	do	72.0	67.1
July to September	do	76.8	72.6
October to December	do	74.2	68.3
Wages	mil. dollars	1 901.7	1 170.0
Cost of materials, etc.[2]	do	8 317.0	4 104.3
Materials, parts, containers, etc., consumed	do	7 215.7	3 594.4
Resales	do	477.8	213.4
Fuels consumed	do	167.7	65.0
Purchased electric energy	do	139.4	56.3
Contract work	do	316.3	175.2
Value of shipments, including resales[2]	do	14 370.0	7 571.2
Value of resales	do	538.0	262.5
Value added by manufacture	do	6 138.0	3 489.9
Manufacturers' inventories:			
Beginning of year	do	1 767.1	877.1
Finished products	do	687.2	394.6
Work in process	do	424.2	186.2
Materials, supplies, fuel, etc.	do	655.7	296.4
End of year	do	1 913.4	875.2
Finished products	do	772.3	359.9
Work in process	do	446.0	198.9
Materials, supplies, fuel, etc.	do	695.1	316.3
Capital expenditures for plant and equipment	do	618.7	287.2
New capital expenditures	do	574.5	267.3
New buildings and other structures	do	87.8	42.1
New machinery and equipment	do	486.7	225.2
Used capital expenditures	do	44.2	20.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	4,401.6	1
New capital expenditures	581.5	3
Used capital expenditures	51.0	12
Retirements	166.8	5
End of year	4,867.3	1
Buildings and other structures:		
Beginning of year	886.8	2
New capital expenditures	86.7	8
Used capital expenditures	7.8	8
Retirements	28.4	7
End of year	952.9	2
Machinery and equipment:		
Beginning of year	3,514.9	1
New capital expenditures	494.8	2
Automobiles, trucks, etc., for highway use	17.5	(NA)
Computers and peripheral data processing equip.	8.6	(NA)
All other	359.8	(NA)
New machinery and equipment, n.s.k.	108.9	(NA)
Used capital expenditures	43.2	14
Retirements	138.5	6
End of year	3,914.4	1
Rental payments:		
Total	90.6	7
Buildings and other structures	43.3	11
Machinery and equipment	47.1	6
Depreciation charges during 1977:		
Total	485.4	2
Buildings and other structures	(56.3)	21
Machinery and equipment	429.1	2
Supplemental labor costs:		
Total	609.5	1
Legal costs	309.9	2
Voluntary costs	299.6	2
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	(12.4)	31
Response coverage ratio (percent)	59	(X)
Machinery	(86.1)	(A)
Response coverage ratio (percent)	59	(X)
Cost of purchased communication services	(21.3)	(A)
Response coverage ratio (percent)	58	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
(A) Indicates standard errors of 100 percent or more. Figures in parentheses have standard errors of 15 percent or more.
(NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area		1977											1972	
		All establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
Oregon	-	**5 716**	**1 580**	**202.4**	**2 760.0**	**155.1**	**291.6**	**1 901.7**	**6 138.0**	**8 317.0**	**14 370.0**	**574.5**	**178.6**	**3 489.9**
STANDARD METROPOLITAN STATISTICAL AREAS														
Eugene-Springfield	-	610	177	20.4	283.7	18.6	32.7	215.0	661.5	997.4	1 652.5	78.2	19.5	413.7
Portland, Oreg.-Wash.	-	2 440	724	99.4	1 392.1	67.9	126.4	815.4	2 951.6	3 823.4	6 544.8	236.4	86.4	1 596.9
Portion in Washington	-	258	69	12.2	179.0	9.5	18.3	129.5	439.2	717.2	1 158.8	33.1	11.3	245.9
Portion in Oregon	-	2 182	655	87.2	1 213.1	58.4	108.1	685.9	2 512.4	2 906.2	5 388.1	203.2	75.0	1 351.0
Salem	-	419	120	15.3	177.7	12.7	21.7	130.7	427.4	586.9	1 001.7	31.8	12.1	222.1
COUNTIES														
Baker	E1	38	8	0.6	9.0	0.5	1.1	7.2	18.2	25.9	42.0	2.8	0.8	14.7
Benton	-	142	40	2.8	35.2	2.2	4.4	25.5	79.0	125.5	203.2	12.8	2.7	44.3
Clackamas	-	429	98	12.8	185.7	8.9	16.6	111.6	464.4	445.0	900.1	49.4	12.1	240.8
Clatsop	-	91	21	2.5	32.8	2.1	3.6	24.4	39.1	112.7	150.7	6.3	2.6	41.0
Columbia	-	92	21	3.5	59.6	3.0	5.7	47.9	217.9	250.6	466.4	20.0	3.2	112.3
Coos	-	191	42	5.8	77.6	4.8	9.0	85.9	166.4	333.6	499.8	16.4	5.1	113.2
Crook	-	37	12	1.7	21.5	1.5	2.8	18.6	52.7	71.7	124.7	1.8	1.9	37.9
Curry	-	64	11	1.3	18.6	1.2	2.4	16.6	40.7	59.4	95.3	4.0	1.7	25.4
Deschutes	-	125	27	3.2	38.9	2.7	5.1	30.2	70.1	127.0	196.1	9.3	2.8	50.4
Douglas	-	297	89	9.7	134.6	8.6	17.1	114.8	296.6	472.2	758.8	45.8	10.8	206.6
Gilliam	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grant	-	40	7	0.6	8.8	0.5	1.1	7.8	19.6	29.6	49.5	1.7	0.4	10.4
Harney	-	16	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hood River	-	43	12	1.4	16.9	1.2	2.3	13.4	39.4	49.0	88.4	1.5	1.1	23.4
Jackson	-	271	66	7.9	102.6	8.5	12.3	79.8	269.6	330.7	601.5	15.6	7.2	159.4
Jefferson	E1	23	5	0.8	4.5	0.7	0.7	3.8	9.4	18.7	26.4	1.2	0.2	3.7
Josephine	-	128	31	3.4	43.2	2.9	5.7	35.7	110.6	146.8	257.5	5.3	2.3	46.3
Klamath	-	108	41	4.8	68.1	4.0	7.9	55.7	150.5	240.6	389.3	17.7	4.5	84.0
Lake	E1	26	6	0.4	5.8	0.4	0.8	4.9	12.7	18.1	30.9	0.8	0.5	10.7
Lane	-	610	177	20.4	283.7	18.6	32.7	215.0	661.5	997.4	1 652.5	78.2	19.5	413.7
Lincoln	E1	84	17	2.0	27.8	1.7	3.0	22.8	73.8	123.9	197.2	23.0	1.6	39.7
Linn	-	245	78	11.1	168.9	9.1	17.5	129.9	401.5	559.0	955.4	29.6	9.4	212.4
Malheur	-	32	5	1.8	18.4	1.5	2.6	13.6	36.5	62.8	92.7	1.1	1.3	29.2
Marion	-	330	94	12.0	132.9	10.0	17.1	97.9	334.7	431.2	754.0	26.9	9.1	181.6
Morrow	-	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Multnomah	-	1 372	422	51.3	718.0	34.5	63.2	420.5	1 515.1	1 862.8	3 382.4	109.1	46.5	815.8
Polk	-	89	26	3.2	44.8	2.7	4.6	32.8	92.8	155.7	247.7	4.9	3.0	60.5
Sherman	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Tillamook	-	63	13	1.4	19.7	1.3	2.4	18.9	40.4	90.9	129.0	3.2	1.7	30.2
Umatilla	-	87	25	3.7	38.7	3.1	6.2	30.3	81.7	146.9	227.9	6.4	2.9	44.2
Union	-	59	9	1.8	23.3	1.4	2.7	19.2	57.0	64.0	120.7	(D)	1.6	41.6
Wallowa	E3	26	3	0.3	3.2	0.2	0.5	2.8	5.7	9.0	14.6	1.5	0.2	2.5
Wasco	-	21	7	1.1	16.3	0.8	1.6	12.6	44.8	64.8	113.6	4.4	1.1	27.6
Washington	-	381	135	23.1	309.3	15.0	28.4	153.8	533.0	598.4	1 105.5	44.8	16.4	294.3
Wheeler	E1	7	2	0.2	3.1	0.2	0.4	2.8	3.8	10.1	14.0	0.2	(D)	(D)
Yamhill	-	139	45	4.6	83.1	3.7	7.0	45.3	152.7	230.0	376.3	10.9	3.1	87.3
CITIES														
Albany	-	73	24	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	87.5
Astoria	E1	45	11	1.4	17.8	1.2	2.0	12.5	24.3	50.4	74.7	3.0	1.4	22.5
Baker	E1	28	6	0.5	6.9	0.4	0.8	5.4	11.6	20.7	32.3	(D)	0.6	11.0
Beaverton	-	79	32	2.8	37.7	1.8	3.4	21.2	82.2	103.3	182.6	5.8	1.4	26.3
Bend	-	75	11	1.2	12.2	1.0	1.8	9.2	28.1	31.7	59.4	2.4	1.7	25.8
Coos Bay	-	59	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	42.3
Corvallis	-	79	22	1.7	21.5	1.2	2.3	13.9	45.6	59.4	104.5	3.0	(D)	(D)
Dallas	-	29	5	1.1	17.9	0.8	1.4	11.2	36.0	49.6	84.0	(D)	1.0	19.9
Eugene	-	271	77	7.9	101.8	6.0	11.2	67.2	220.9	277.0	494.2	17.6	5.7	105.3
Forest Grove	-	32	12	1.2	13.1	1.0	1.9	9.5	25.1	45.0	69.1	2.6	(D)	(D)
Grants Pass	-	85	20	2.6	33.3	2.2	4.4	27.3	84.0	108.4	192.1	3.7	1.3	26.6
Hillsboro	E1	54	23	1.7	17.0	1.3	2.3	12.1	51.3	66.6	117.3	3.0	1.6	29.3
Hood River	-	30	7	0.9	9.3	0.7	1.5	6.8	20.6	21.4	41.7	0.8	(NA)	(NA)
Klamath Falls	-	72	23	3.3	48.0	2.8	5.4	38.9	112.2	178.5	289.0	14.7	3.2	61.9
La Grande	-	30	6	1.0	14.3	0.8	1.5	10.9	31.2	41.3	71.9	2.1	0.7	18.7
Lake Oswego	-	42	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.2
Lebanon	E1	40	13	1.9	29.0	1.7	3.3	23.8	59.7	96.0	155.6	3.1	1.7	40.3
McMinnville	-	48	22	2.2	28.9	1.7	3.3	20.3	65.0	120.8	182.2	2.4	1.5	28.2
Medford	-	101	25	3.3	43.8	2.6	5.0	32.8	113.4	121.6	235.8	7.1	3.1	87.9
Milwaukie	-	65	18	2.6	35.6	1.8	3.4	22.0	86.3	49.1	134.5	3.7	3.9	68.8
Newberg	-	34	10	1.2	18.0	0.9	1.6	11.0	48.3	38.8	86.4	5.5	(NA)	(NA)
North Bend	-	30	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ontario	-	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Oregon City	-	28	6	1.0	17.5	0.7	1.2	10.3	50.3	44.6	94.9	(D)	1.0	27.4
Pendleton	-	26	6	1.0	10.5	0.8	1.8	8.2	12.9	45.7	58.7	1.4	1.2	14.6
Portland	-	1 137	345	42.7	598.9	27.5	50.1	329.3	1 223.6	1 465.9	2 700.2	(D)	40.8	737.5
Redmond	-	25	5	0.5	7.2	0.4	0.8	5.8	12.9	29.2	42.1	1.1	(NA)	(NA)
Roseburg	-	98	24	2.2	30.0	1.9	3.7	24.4	65.0	101.9	168.6	5.5	1.9	28.1
St. Helens	-	17	5	1.4	24.7	1.2	2.2	20.0	85.0	93.2	177.8	(D)	(NA)	(NA)
Salem	-	150	47	6.2	89.1	5.0	8.0	49.6	153.2	209.7	362.3	11.5	5.7	108.6
Seaside	-	28	2	0.5	8.3	0.4	0.7	6.0	1.2	32.8	33.9	(D)	(NA)	(NA)
Silverton	E1	28	4	0.5	4.3	0.3	0.5	2.9	8.7	11.1	19.7	1.4	(NA)	(NA)
Springfield	-	86	28	5.1	78.7	4.3	9.1	80.9	187.9	339.6	526.0	(D)	4.9	130.1
Stayton	-	18	8	1.6	14.7	1.4	2.4	12.2	45.0	44.4	83.0	2.1	1.5	17.1
Sweet Home	-	51	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	16.8
Tigard	E1	45	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	26.5
Toledo	-	15	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
West Linn	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Woodburn	E2	23	10	1.8	18.1	1.5	2.7	13.0	51.2	68.2	118.8	3.0	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	5 718	1 580	202.4	2 780.0	155.1	291.6	1 901.7	8 138.0	8 317.0	14 370.0	574.5	178.6	3 489.9
20	**Food and kindred products**	-	413	181	23.2	257.0	18.4	31.1	174.0	888.2	1 270.5	1 923.2	48.8	21.9	417.9
201	Meat products	E1	57	19	2.3	29.2	1.8	3.4	21.6	64.2	247.4	312.5	3.6	2.4	38.9
2011	Meat packing plants	E2	36	8	0.7	10.3	0.6	1.2	8.2	19.9	109.8	129.8	1.2	0.6	11.0
2013	Sausages and other prepared meats	-	15	7	1.0	12.6	0.7	1.4	8.4	34.5	110.7	144.6	1.4	1.2	19.7
2016	Poultry dressing plants	-	8	4	0.6	6.2	0.6	0.8	5.1	9.9	26.9	38.2	1.0	0.6	8.2
202	Dairy products	-	52	25	1.7	25.8	0.9	1.7	13.4	64.8	207.5	269.3	3.2	EE	(D)
2022	Cheese, natural and processed	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2026	Fluid milk	-	35	22	1.3	21.0	0.6	1.2	10.1	54.1	156.5	209.8	2.6	1.6	33.7
203	Preserved fruits and vegetables	-	80	45	11.0	94.6	10.0	15.6	76.8	237.2	297.3	525.8	14.1	9.1	138.6
2033	Canned fruits and vegetables	-	28	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	62.1
2034	Dehydrated fruits, vegetables, and soups	E1	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.6
2035	Pickles, sauces, and salad dressings	-	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2037	Frozen fruits and vegetables	-	28	19	6.3	54.8	5.7	9.3	44.9	146.3	177.3	315.8	7.0	4.9	63.9
2038	Frozen specialties	-	9	4	0.6	6.5	0.5	0.9	4.3	16.5	22.0	38.5	1.5	BB	(D)
204	Grain mill products	-	43	15	0.9	13.0	0.6	1.2	7.7	41.9	129.0	171.7	1.5	1.0	28.4
2041	Flour and other grain mill products	-	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	7.2
2047	Dog, cat, and other pet food	-	7	4	0.3	4.6	0.2	0.4	2.7	19.0	32.2	51.8	(D)	BB	(D)
2048	Prepared feeds, n.e.c.	-	30	8	0.4	5.5	0.3	0.5	2.8	14.5	58.6	73.2	0.7	BB	(D)
205	Bakery products	-	41	18	2.6	40.4	1.6	3.0	22.7	115.8	70.7	186.9	15.7	2.6	70.5
2051	Bread, cake, and related products	-	35	13	1.6	27.3	0.8	1.6	13.5	61.8	39.5	101.2	14.9	EE	(D)
2052	Cookies and crackers	-	6	5	1.0	13.2	0.8	1.4	9.2	54.2	31.2	85.7	0.8	CC	(D)
206	Sugar and confectionery products	-	13	4	0.8	9.1	0.6	1.1	6.5	22.6	31.2	46.3	(D)	CC	(D)
2063	Beet sugar	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2065	Confectionery products	-	12	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
207	Fats and oils	-	17	5	0.3	4.3	0.2	0.4	2.4	11.1	107.2	120.4	(D)	0.2	8.2
2079	Shortening and cooking oils	-	3	3	0.2	2.7	0.1	0.3	1.3	5.6	96.3	104.0	0.4	(NA)	(NA)
208	Beverages	-	32	19	1.1	19.4	0.5	1.2	7.2	56.4	54.2	110.2	3.6	1.2	39.2
2082	Malt beverages	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2086	Bottled and canned soft drinks	-	23	15	0.8	13.4	0.3	0.9	4.5	32.0	28.3	60.1	2.5	CC	(D)
209	Miscellaneous foods and kindred products	E1	78	31	2.6	21.0	2.1	3.3	15.7	54.2	126.0	180.1	4.9	2.6	33.3
2091	Canned and cured seafoods	-	11	2	0.5	3.3	0.5	0.6	3.0	7.0	22.2	29.1	(D)	0.7	7.5
2092	Fresh or frozen packaged fish	E1	33	23	1.5	11.2	1.3	2.1	9.1	23.2	60.6	83.8	2.3	EE	(D)
2099	Food preparations, n.e.c.	E1	25	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	8.7
22	**Textile mill products**	-	23	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2231	Weaving and finishing mills, wool	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
225	Knitting mills	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2253	Knit outerwear mills	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
23	**Apparel and other textile products**	-	118	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
232	Men's and boys' furnishings	-	9	5	0.7	4.4	0.6	1.0	3.8	11.1	14.9	25.4	(D)	CC	(D)
2321	Men's and boys' shirts and nightwear	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2329	Men's and boys' clothing, n.e.c.	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
233	Women's and misses' outerwear	E3	17	1	0.3	2.3	0.2	0.4	1.3	2.0	1.1	3.2	(D)	CC	(D)
2339	Women's and misses' outerwear, n.e.c.	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
23	**Apparel and other textile products**—Con.														
236	Children's outerwear	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2361	Children's dresses and blouses	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2369	Children's outerwear, n.e.c.	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
239	Miscellaneous fabricated textile products	E1	76	14	1.0	8.6	0.8	1.5	5.4	18.7	23.0	41.1	(D)	EE	(D)
2391	Curtains and draperies	E1	32	7	0.4	3.1	0.3	0.5	1.7	5.7	5.8	11.3	(D)	BB	(D)
2393	Textile bags	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
24	**Lumber and wood products**	-	**2 184**	**608**	**75.3**	**1 049.1**	**88.8**	**131.2**	**891.9**	**2 376.8**	**3 882.9**	**6 214.2**	**225.1**	**73.9**	**1 491.8**
2411	Logging camps and logging contractors	E1	1 326	147	14.0	196.9	12.5	22.4	185.0	477.2	749.9	1 220.0	71.0	13.2	214.9
242	Sawmills and planing mills	-	404	220	26.1	370.1	23.3	47.1	315.4	845.9	1 408.2	2 250.5	94.5	27.7	613.5
2421	Sawmills and planing mills, general	-	332	210	25.1	363.0	22.4	45.8	309.5	831.4	1 395.3	2 223.5	93.4	26.8	605.6
2426	Hardwood dimension and flooring	-	9	4	0.4	2.4	0.4	0.5	2.0	4.0	4.2	8.2	0.1	0.4	2.7
2429	Special product sawmills, n.e.c.	E2	63	6	0.6	4.7	0.5	0.8	3.9	10.4	8.7	18.9	1.0	0.4	5.2
243	Millwork, plywood, and structural members	-	289	167	27.4	388.1	24.7	49.2	340.3	831.4	1 415.5	2 234.2	43.8	27.2	555.4
2431	Millwork	-	75	31	4.4	50.6	3.8	7.3	40.5	98.8	173.8	271.2	3.7	4.4	60.8
2434	Wood kitchen cabinets	-	64	15	1.3	12.5	1.1	2.0	10.4	23.6	27.5	50.4	2.8	BB	(D)
2435	Hardwood veneer and plywood	-	11	6	1.5	23.0	1.2	2.3	17.3	36.6	85.0	120.2	1.5	EE	(D)
2436	Softwood veneer and plywood	-	111	102	19.2	288.8	17.6	36.0	261.6	634.4	1 069.7	1 896.9	32.3	19.8	443.1
2439	Structural wood members, n.e.c.	-	28	13	1.0	13.3	0.9	1.6	10.4	38.0	59.5	95.6	3.5	CC	(D)
244	Wood containers	E1	22	7	0.6	3.7	0.5	0.8	3.0	5.7	9.8	15.5	0.7	0.4	3.2
2448	Wood pallets and skids	E3	11	3	0.2	1.4	0.2	0.3	1.2	2.8	4.5	7.3	(D)	(NA)	(NA)
2449	Wood containers, n.e.c.	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
245	Wood buildings and mobile homes	E1	26	18	2.7	32.1	2.3	4.6	23.0	69.8	123.9	192.5	5.6	1.5	23.7
2451	Mobile homes	E1	18	17	2.7	31.0	2.2	4.4	22.3	66.2	121.5	186.5	5.5	EE	(D)
249	Miscellaneous wood products	-	117	49	4.4	58.3	3.6	7.1	45.2	146.6	155.5	301.4	9.6	3.9	81.2
2491	Wood preserving	-	12	10	0.5	6.2	0.4	0.7	4.5	15.1	29.8	45.1	1.1	BB	(D)
2492	Particleboard	-	12	11	1.6	23.9	1.3	2.5	18.7	67.4	69.4	136.3	4.4	EE	(D)
2499	Wood products, n.e.c.	-	93	28	2.3	28.2	1.9	3.8	22.0	64.2	56.4	120.0	4.1	1.4	29.9
25	**Furniture and fixtures**	**E1**	**123**	**31**	**2.7**	**28.3**	**2.3**	**4.2**	**20.1**	**55.1**	**46.6**	103.3	**(D)**	**2.5**	**35.3**
251	Household furniture	E1	71	16	1.7	16.8	1.5	2.7	12.5	32.6	28.5	62.3	(D)	2.1	28.8
2511	Wood household furniture	E1	44	7	0.9	8.1	0.8	1.5	6.3	16.0	10.4	27.4	(D)	1.4	18.7
2512	Upholstered household furniture	E1	19	8	0.7	7.0	0.6	1.1	5.1	11.1	12.3	23.6	(D)	0.5	6.7
254	Partitions and fixtures	-	29	9	0.6	6.5	0.5	0.8	4.7	12.4	11.2	24.3	(D)	AA	(D)
2541	Wood partitions and fixtures	-	25	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2542	Metal partitions and fixtures	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
259	Miscellaneous furniture and fixtures	-	11	3	0.2	2.9	0.2	0.3	1.7	6.6	4.5	10.9	(D)	0.2	2.7
28	**Paper and allied products**	-	**55**	**37**	**9.1**	**162.3**	**7.2**	**14.3**	**124.5**	**542.6**	**627.1**	**1 166.1**	**91.2**	**8.6**	**298.3**
2621	Paper mills, except building paper	-	7	7	3.8	75.7	3.0	5.9	57.6	270.0	262.5	530.6	26.1	FF	(D)
2631	Paperboard mills	-	7	6	2.0	40.3	1.7	3.3	32.3	130.3	179.2	310.5	55.7	1.8	93.2
264	Miscellaneous converted paper products	-	28	14	2.4	33.6	1.9	3.7	25.5	112.3	144.9	254.3	7.3	EE	(D)
2641	Paper coating and glazing	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2642	Envelopes	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2643	Bags, except textile bags	-	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	10.3
2647	Sanitary paper products	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2648	Stationery products	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2649	Converted paper products, n.e.c.	-	7	4	0.3	4.0	0.2	0.5	2.7	10.9	12.1	23.0	1.9	(NA)	(NA)
265	Paperboard containers and boxes	-	11	7	0.5	7.5	0.3	0.7	4.8	17.4	27.6	45.1	1.6	CC	(D)
2653	Corrugated and solid fiber boxes	-	4	4	0.3	5.1	0.2	0.4	3.1	12.0	19.9	31.9	1.4	BB	(D)
2661	Building paper and board mills	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
27	**Printing and publishing**	E1	**544**	**79**	**7.9**	**96.6**	**4.4**	**7.7**	**51.2**	**213.6**	**116.1**	**328.5**	**11.6**	**6.7**	**120.2**
2711	Newspapers	-	117	28	3.6	43.9	1.4	2.4	18.3	100.1	39.5	139.8	5.8	3.8	82.4
2741	Miscellaneous publishing	E2	16	3	0.2	1.4	(Z)	0.1	0.3	2.8	1.1	3.9	0.2	(NA)	(NA)
275	Commercial printing	E1	314	30	2.4	31.5	1.8	3.1	20.9	60.2	42.3	102.1	3.2	EE	(D)
2751	Commercial printing, letterpress	E5	189	6	0.7	7.4	0.8	1.0	5.1	12.9	6.9	21.6	(D)	BB	(D)
2752	Commercial printing, lithographic	-	137	21	1.6	23.0	1.2	2.0	15.0	46.2	32.9	78.8	2.3	1.1	18.2
2761	Manifold business forms	E2	14	9	0.7	9.2	0.5	1.1	6.8	30.8	26.5	56.8	1.6	0.6	18.3
276	Blankbooks and bookbinding	-	11	8	0.4	4.3	0.3	0.6	3.3	8.0	3.0	10.8	0.3	0.2	4.0
2762	Blankbooks and looseleaf binders	-	3	3	0.2	2.6	0.2	0.4	2.1	5.0	2.1	7.0	0.2	(NA)	(NA)
279	Printing trade services	E1	35	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2791	Typesetting	E1	26	2	0.3	3.4	0.2	0.4	2.6	5.7	1.1	8.8	0.4	BB	(D)
28	**Chemicals and allied products**	-	110	**40**	**2.5**	**34.2**	**1.5**	**2.6**	**17.5**	**119.8**	**232.6**	**350.4**	**10.5**	**2.0**	**73.4**
261	Industrial inorganic chemicals	-	10	3	0.4	5.6	0.2	0.4	3.1	22.3	23.7	45.7	2.5	BB	(D)
2812	Alkalies and chlorine	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
262	Plastics materials and synthetics	-	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2821	Plastics materials and resins	-	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
283	Drugs	E2	11	5	0.2	2.6	0.1	0.3	1.4	9.0	8.6	15.4	0.4	0.2	4.8
2834	Pharmaceutical preparations	E2	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
284	Soaps, cleaners, and toilet goods	E2	16	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2851	Paints and allied products	E1	18	9	0.4	6.2	0.2	0.4	2.8	14.4	23.5	38.0	0.3	BB	(D)
286	Industrial organic chemicals	-	6	3	0.4	3.8	0.3	0.4	2.5	9.9	14.8	24.1	(D)	BB	(D)
2861	Gum and wood chemicals	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
287	Agricultural chemicals	-	10	5	0.3	3.1	0.2	0.3	1.8	10.0	22.1	31.9	(D)	(NA)	(NA)
289	Miscellaneous chemical products	-	31	8	0.5	7.7	0.3	0.6	3.5	33.7	88.7	121.7	2.3	0.6	28.8
2891	Adhesives and sealants	-	11	5	0.3	4.4	0.2	0.3	1.9	18.0	66.0	81.8	0.9	BB	(D)
29	**Petroleum and coal products**	-	**29**	**14**	**0.8**	**11.7**	**0.6**	**1.1**	**7.6**	**29.5**	**101.1**	**128.9**	**(D)**	**CC**	**(D)**
295	Paving and roofing materials	-	22	11	0.7	9.2	0.5	1.0	8.2	23.3	49.4	72.1	(D)	CC	(D)
2951	Paving mixtures and blocks	-	14	5	0.3	4.3	0.2	0.5	2.9	11.6	19.9	31.4	(D)	BB	(D)
2952	Asphalt felts and coatings	-	8	8	0.3	4.9	0.2	0.5	3.3	11.7	29.4	40.8	(D)	AA	(D)
30	**Rubber and miscellaneous plastics products**	E1	103	**29**	**EE**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**1.3**	**19.7**
3069	Fabricated rubber products, n.e.c.	-	13	6	0.4	4.9	0.3	0.7	3.3	10.1	7.8	17.8	0.4	BB	(D)
3079	Miscellaneous plastics products	E1	84	21	1.6	18.8	1.3	2.4	11.1	45.7	44.8	89.0	3.3	0.9	13.2
31	**Leather and leather products**	E1	26	**8**	**0.3**	**2.9**	**0.3**	**0.5**	**2.2**	**5.3**	**6.8**	**14.0**	**(D)**	**AA**	**(D)**
32	**Stone, clay, and glass products**	E1	**226**	**51**	**4.1**	**53.6**	**3.1**	**6.0**	**37.6**	**125.5**	**113.6**	**239.4**	**12.1**	**3.4**	**71.8**
322	Glass and glassware, pressed or blown	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3221	Glass containers	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3241	Cement, hydraulic	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
327	Concrete, gypsum, and plaster products	E1	151	34	2.8	34.5	1.8	3.5	22.4	78.8	79.4	157.2	7.8	2.1	44.6
3272	Concrete products, n.e.c.	E2	59	9	0.8	10.1	0.7	1.2	8.8	21.8	17.2	38.1	1.8	CC	(D)
3273	Ready-mixed concrete	-	73	24	1.7	22.5	1.1	2.1	14.5	52.2	56.0	108.2	5.9	EE	(D)
329	Miscellaneous nonmetallic mineral products	E2	24	5	0.3	4.3	0.3	0.5	2.9	10.5	8.5	18.8	1.1	0.3	5.2
3295	Minerals, ground or treated	E2	15	3	0.3	3.8	0.2	0.4	2.5	9.5	5.8	15.1	0.7	0.2	4.6

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
33	**Primary metal industries**	-	**72**	**33**	**9.0**	**149.8**	**8.8**	**12.5**	**103.8**	**351.8**	**333.7**	**871.5**	**58.0**	**FF**	**(D)**
331	Blast furnace and basic steel products	-	9	8	1.5	28.3	1.2	2.1	18.9	48.3	95.9	128.7	(D)	EE	(D)
3312	Blast furnaces and steel mills	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3313	Electrometallurgical products	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
332	Iron and steel foundries	-	18	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3321	Gray iron foundries	E1	9	7	0.4	5.9	0.4	0.7	4.7	9.7	8.1	15.8	1.1	0.3	3.4
3324	Steel investment foundries	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3325	Steel foundries, n.e.c.	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
333	Primary nonferrous metals	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3334	Primary aluminum	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
335	Nonferrous rolling and drawing	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3356	Nonferrous rolling and drawing, n.e.c.	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
336	Nonferrous foundries	E2	22	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	12.8
3361	Aluminum foundries	E2	10	2	0.2	2.3	0.2	0.3	1.7	4.2	2.7	6.8	0.2	0.8	9.9
339	Miscellaneous primary metal products	-	11	1	0.2	2.3	0.1	0.2	1.5	8.8	7.0	18.7	(D)	0.2	2.7
34	**Fabricated metal products**	-	**406**	**122**	**11.8**	**149.7**	**9.1**	**17.1**	**101.2**	**340.7**	**348.5**	**680.9**	**17.0**	**8.3**	**155.0**
341	Metal cans and shipping containers	-	9	5	0.5	9.2	0.4	0.9	7.1	41.4	63.1	100.6	0.4	0.4	15.9
3411	Metal cans	-	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
342	Cutlery, hand tools, and hardware	-	36	15	3.0	34.9	2.5	4.3	25.0	84.4	47.1	130.9	5.2	2.3	43.5
3421	Cutlery	E1	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3423	Hand and edge tools, n.e.c.	-	7	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3425	Hand saws and saw blades	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	24.0
3429	Hardware, n.e.c.	-	20	8	1.5	14.8	1.3	2.2	11.5	30.6	27.4	58.5	2.4	CC	(D)
343	Plumbing and heating, except electric	E5	30	3	0.2	2.8	0.2	0.3	1.7	6.1	5.9	11.9	0.2	(NA)	(NA)
3433	Heating equipment, except electric	E4	25	3	0.2	2.4	0.2	0.3	1.4	5.3	5.2	10.5	0.2	(NA)	(NA)
344	Fabricated structural metal products	-	184	51	4.3	57.3	3.1	5.9	36.4	118.1	147.2	261.8	6.1	3.2	58.0
3441	Fabricated structural metal	-	45	15	1.0	15.5	0.8	1.5	10.7	28.2	31.7	59.6	2.2	0.7	12.3
3442	Metal doors, sash, and trim	-	30	12	1.1	10.9	0.8	1.6	7.0	29.9	40.7	69.5	1.0	0.7	8.4
3443	Fabricated plate work (boiler shops)	E1	28	10	0.9	13.4	0.7	1.4	9.3	25.4	27.2	52.0	1.2	0.5	11.2
3444	Sheet metal work	-	60	11	0.8	11.7	0.8	1.1	7.9	24.0	25.9	49.5	1.2	0.8	14.6
3449	Miscellaneous metal work	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
345	Screw machine products, bolts, etc.	E1	5	4	0.3	3.8	0.2	0.4	2.4	7.1	6.3	13.5	0.3	0.2	2.6
348	Metal forgings and stampings	-	19	7	0.5	6.8	0.4	0.7	4.8	12.4	13.3	25.5	0.8	0.3	5.2
3462	Iron and steel forgings	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3469	Metal stampings, n.e.c.	-	12	2	0.2	3.2	0.2	0.4	2.3	5.4	6.8	12.0	(D)	AA	(D)
347	Metal services, n.e.c.	E1	39	13	0.8	8.4	0.6	1.2	6.0	15.3	5.8	21.0	0.9	0.5	5.7
3471	Plating and polishing	E1	26	10	0.6	8.7	0.5	1.0	4.8	12.5	3.8	16.2	0.6	BB	(D)
3479	Metal coating and allied services	E2	13	3	0.2	1.8	0.1	0.2	1.3	2.8	2.0	4.8	0.2	(NA)	(NA)
348	Ordnance and accessories, n.e.c.	E1	5	3	0.2	2.3	0.2	0.3	1.3	5.3	2.4	8.5	0.1	0.2	1.8
3489	Ordnance and accessories, n.e.c.	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	79	21	2.1	24.5	1.8	3.0	16.5	50.7	57.4	107.2	3.0	EE	(D)
3494	Valves and pipe fittings	E1	7	4	0.4	5.0	0.3	0.6	3.6	9.0	7.1	18.2	0.1	(NA)	(NA)
3496	Miscellaneous fabricated wire products	-	17	4	0.3	3.2	0.2	0.4	2.2	8.5	10.6	19.0	0.4	0.2	4.2
3498	Fabricated pipe and fittings	-	8	3	0.5	6.5	0.3	0.6	3.9	13.9	15.8	29.1	(D)	BB	(D)
3499	Fabricated metal products, n.e.c.	E1	42	7	0.8	8.3	0.8	1.2	5.8	18.7	21.5	37.8	1.0	BB	(D)
35	**Machinery, except electrical**	-	**560**	**130**	**14.4**	**215.5**	**9.4**	**16.8**	**117.1**	**482.8**	**355.4**	**816.8**	**38.2**	**10.1**	**185.3**
352	Farm and garden machinery	E1	38	12	0.7	9.2	0.8	1.1	6.7	19.9	27.2	47.1	(D)	CC	(D)
3523	Farm machinery and equipment	E1	36	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
353	Construction and related machinery	-	66	24	3.7	59.9	2.4	4.3	34.2	124.6	117.5	232.0	7.3	3.7	70.4
3531	Construction machinery	E1	32	8	1.1	18.6	0.7	1.3	10.9	30.4	29.8	56.1	1.1	EE	(D)
3532	Mining machinery	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3535	Conveyors and conveying equipment	E1	9	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3537	Industrial trucks and tractors	-	15	8	1.7	28.3	1.1	1.8	14.4	64.3	58.5	115.7	5.1	1.8	32.5

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
35	**Machinery, except electrical**—Con.														
354	Metalworking machinery	E1	36	4	0.4	5.5	0.3	0.6	3.8	11.7	6.0	16.7	0.6	BB	(D)
355	Special industry machinery	–	87	35	2.3	34.8	1.5	2.9	19.8	70.4	61.8	130.6	2.8	EE	(D)
3551	Food products machinery	E3	15	4	0.3	4.0	0.2	0.4	2.3	8.2	4.8	12.8	0.3	AA	(D)
3553	Woodworking machinery	–	48	22	1.3	20.2	0.9	1.8	12.7	39.5	43.8	81.8	1.6	EE	(D)
3554	Paper industries machinery	E1	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3559	Special industry machinery, n.e.c.	–	14	5	0.5	7.6	0.2	0.5	2.9	17.8	10.0	27.7	0.8	AA	(D)
356	General industrial machinery	–	48	12	2.3	35.5	1.7	2.5	19.5	69.3	47.8	117.0	(D)	2.0	29.8
3561	Pumps and pumping equipment	–	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3564	Blowers and fans	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3565	Industrial patterns	E1	14	3	0.2	2.6	0.1	0.3	2.1	3.9	0.9	4.7	0.1	(NA)	(NA)
3568	Power transmission equipment, n.e.c.	–	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3569	General industrial machinery, n.e.c.	–	13	2	0.3	4.4	0.2	0.3	1.9	6.3	5.8	12.1	0.2	BB	(D)
357	Office and computing machines	–	10	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3573	Electronic computing equipment	–	7	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3574	Calculating and accounting machines	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
358	Refrigeration and service machinery	–	23	9	0.6	8.5	0.4	0.8	5.2	26.2	22.5	48.7	0.5	0.4	8.4
3585	Refrigeration and heating equipment	E2	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3589	Service industry machinery, n.e.c.	–	13	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
359	Miscellaneous machinery, except electrical	E2	250	31	2.3	30.9	1.8	3.4	21.0	54.7	26.5	80.0	(D)	EE	(D)
3599	Machinery, except electrical, n.e.c.	E2	249	31	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
36	**Electric and electronic equipment**	–	**149**	**46**	**4.7**	**54.5**	**3.2**	**8.4**	**30.0**	**144.8**	**102.3**	**243.7**	**(D)**	**3.5**	**54.3**
361	Electric distributing equipment	–	13	6	0.4	5.4	0.3	0.5	3.0	23.0	18.3	39.5	0.2	0.3	8.2
3612	Transformers	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3613	Switchgear and switchboard apparatus	E1	10	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
364	Electric lighting and wiring equipment	–	11	4	0.3	2.0	0.2	0.4	1.6	4.9	3.8	8.2	(Z)	0.2	2.4
366	Communication equipment	–	22	7	1.2	13.1	0.8	1.5	6.1	47.8	21.8	68.3	1.2	1.1	15.1
3661	Telephone and telegraph apparatus	–	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3662	Radio and TV communication equipment	–	18	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
367	Electronic components and accessories	E1	39	14	1.3	12.4	0.9	2.0	7.6	24.7	12.1	36.4	3.6	0.8	10.4
3674	Semiconductors and related devices	E1	4	2	0.3	2.5	0.2	0.5	2.0	5.7	3.4	8.7	3.1	(NA)	(NA)
3879	Electronic components, n.e.c.	E2	29	10	0.9	8.7	0.6	1.4	5.0	16.4	7.6	24.0	(D)	CC	(D)
369	Miscellaneous electrical equipment and supplies	–	30	11	1.3	17.9	0.9	1.7	9.8	36.2	39.3	75.7	(D)	0.6	10.7
3691	Storage batteries	–	9	4	0.4	6.4	0.4	0.7	4.7	15.1	20.9	35.7	(D)	0.4	7.6
3693	X-ray, electromedical, and electrotheraputic apparatus	–	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3899	Electrical equipment and supplies, n.e.c.	–	8	4	0.3	3.9	0.2	0.4	2.4	6.7	6.8	14.1	0.1	(NA)	(NA)
37	**Transportation equipment**	–	**210**	**56**	**9.4**	**133.0**	**7.7**	**13.2**	**98.9**	**237.3**	**368.7**	**838.0**	**(D)**	**FF**	**(D)**
371	Motor vehicles and equipment	–	83	26	3.8	49.4	3.1	5.0	35.7	100.2	209.7	305.5	(D)	3.3	90.0
3711	Motor vehicles and car bodies	–	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3713	Truck and bus bodies	E3	16	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories	–	47	11	1.7	22.6	1.4	2.3	16.4	44.1	70.3	113.3	(D)	1.2	27.9
3715	Truck trailers	E1	12	4	0.5	7.6	0.4	0.7	4.9	15.5	16.4	32.3	0.4	CC	(D)
3718	Motor homes produced on purchased chassis	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts	–	7	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3728	Aircraft equipment, n.e.c.	–	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
373	Ship and boat building and repairing	–	67	11	1.8	30.1	1.5	2.9	24.2	51.9	28.7	80.4	(D)	EE	(D)
3731	Ship building and repairing	–	11	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3732	Boat building and repairing	E2	56	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3743	Railroad equipment	–	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
379	Miscellaneous transportation equipment	–	40	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	25.3
3792	Travel trailers and campers	–	30	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	23.2

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
38	**Instruments and related products**	-	81	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.9	180.6
382	Measuring and controlling devices	-	18	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3825	Instruments to measure electricity	-	5	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3832	Optical instruments and lenses	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
384	Medical instruments and supplies	-	37	9	0.9	11.5	0.6	1.1	8.6	28.6	12.5	38.9	1.0	CC	(D)
3841	Surgical and medical instruments	E1	11	7	0.3	3.8	0.2	0.4	2.2	8.6	4.0	12.4	0.4	AA	(D)
3843	Dental equipment and supplies	-	13	2	0.5	7.3	0.4	0.8	3.9	18.5	7.9	24.4	(D)	AA	(D)
3861	Photographic equipment and supplies	-	9	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
39	**Miscellaneous manufacturing industries**	E2	185	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	27.5
3931	Musical instruments	E2	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
394	Toys and sporting goods	-	40	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3944	Games, toys, and children's vehicles	-	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3949	Sporting and athletic goods, n.e.c.	-	31	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
399	Miscellaneous manufactures	E2	99	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	13.5
3991	Brooms and brushes	-	4	1	0.2	1.9	0.2	0.3	1.1	4.1	2.3	8.2	0.1	AA	(D)
3993	Signs and advertising displays	E2	45	5	0.4	4.3	0.2	0.5	2.4	7.4	5.2	12.5	0.3	0.5	8.1
3999	Manufacturing industries, n.e.c.	E5	47	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	3.5
–	**Administrative and auxiliary**	-	101	45	5.4	102.8	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and Industry	E[1]	1977										1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Eugene-Springfield SMSA	-	**610**	**177**	**20.4**	**283.7**	**18.6**	**32.7**	**215.0**	**881.5**	**997.4**	**1 852.5**	**78.2**	**19.5**	**413.7**
24	Lumber and wood products	-	300	99	12.9	187.8	11.4	23.1	158.6	448.2	697.0	1 138.0	(D)	14.1	297.6
2411	Logging camps and logging contractors	-	163	18	2.4	37.8	2.1	4.3	31.5	112.5	181.1	270.7	11.5	1.9	38.5
242	Sawmills and planing mills	-	70	43	5.3	73.0	4.8	9.8	61.7	166.4	238.3	407.0	10.9	6.2	147.2
2421	Sawmills and planing mills, general	-	55	40	5.0	70.9	4.5	9.3	60.0	163.1	234.2	399.7	10.6	6.1	146.2
243	Millwork, plywood, and structural members	-	49	30	4.6	69.4	4.0	8.1	59.5	148.4	275.2	418.4	8.6	5.3	101.7
2436	Softwood veneer and plywood	-	25	22	2.9	45.6	2.6	5.5	40.2	101.3	186.3	285.5	4.6	3.3	66.3
2439	Structural wood members, n.e.c.	-	5	3	0.4	6.0	0.4	0.7	5.2	20.1	33.4	52.1	(D)	(NA)	(NA)
27	Printing and publishing	E1	58	10	0.8	10.7	0.4	0.7	4.7	23.1	9.0	32.1	(D)	0.7	9.9
28	Chemicals and allied products	-	13	6	0.5	5.2	0.3	0.6	3.0	18.4	64.8	82.7	(D)	0.3	14.3
34	Fabricated metal products	-	40	14	1.4	15.2	1.0	2.0	9.8	35.8	31.9	66.8	1.7	0.5	11.4
344	Fabricated structural metal products	E1	18	8	0.4	5.9	0.3	0.6	3.9	13.3	13.6	26.6	0.4	0.3	7.9
35	Machinery, except electrical	E1	53	12	0.9	11.2	0.6	1.2	7.0	25.7	22.2	48.1	1.4	0.7	11.5
359	Miscellaneous machinery, except electrical	E2	28	4	0.3	3.4	0.2	0.4	2.1	6.7	2.8	9.4	(D)	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E2	28	4	0.3	3.4	0.2	0.4	2.1	6.7	2.8	9.4	(D)	(NA)	(NA)
37	Transportation equipment	E2	15	4	0.3	3.3	0.3	0.4	2.3	8.7	19.5	28.2	(D)	(NA)	(NA)
	Portland, Oreg.-Wash., SMSA	-	**2 440**	**724**	**99.4**	**1 392.1**	**87.9**	**128.4**	**815.4**	**2 951.6**	**3 623.4**	**6 544.8**	**236.4**	**88.4**	**1 596.9**
20	Food and kindred products	-	151	78	8.4	117.2	5.7	10.7	69.7	347.4	719.8	1 067.6	28.4	9.3	237.7
201	Meat products	E1	22	12	1.4	19.8	1.1	2.2	14.3	41.8	187.9	229.2	2.3	1.4	28.1
2013	Sausages and other prepared meats	-	9	5	0.7	10.4	0.5	1.1	6.8	27.6	98.4	125.7	1.2	0.8	15.6
202	Dairy products	-	17	8	0.7	13.1	0.3	0.6	6.2	37.6	93.9	130.8	1.1	1.0	24.0
2026	Fluid milk	-	14	8	0.7	12.8	0.3	0.6	6.0	38.8	91.0	127.1	(D)	(NA)	(NA)
2037	Frozen fruits and vegetables	-	4	3	0.3	2.5	0.2	0.3	1.4	5.8	13.0	18.6	(D)	(NA)	(NA)
204	Grain mill products	-	13	10	0.6	9.1	0.4	0.7	5.4	30.8	86.5	118.1	0.9	0.8	22.4
2048	Prepared feeds, n.e.c.	-	9	6	0.3	3.9	0.2	0.3	2.0	9.1	38.2	47.3	0.4	0.3	7.6
208	Beverages	-	14	10	0.9	16.4	0.4	0.8	7.4	59.3	69.1	127.7	8.3	1.1	44.8
2086	Bottled and canned soft drinks	-	7	6	0.4	6.6	0.1	0.2	1.8	16.1	12.3	28.4	(D)	0.5	11.5
209	Miscellaneous foods and kindred products	-	24	10	0.9	10.3	0.7	1.2	6.6	38.9	64.1	102.9	0.9	0.9	18.1
239	Miscellaneous fabricated textile products	E1	49	11	0.8	6.8	0.6	1.2	4.3	14.0	15.1	28.8	0.3	1.2	13.7
2391	Curtains and draperies	E2	23	5	0.3	2.5	0.2	0.4	1.2	4.6	4.3	8.7	(Z)	0.3	1.6
24	Lumber and wood products	-	380	95	9.5	122.8	8.2	15.6	98.1	327.3	410.2	728.0	24.2	9.3	156.7
2411	Logging camps and logging contractors	E2	131	10	1.3	17.9	1.2	2.0	14.4	28.6	44.4	71.4	3.2	1.4	15.4
242	Sawmills and planing mills	-	78	34	3.2	42.8	2.8	5.4	35.3	169.9	179.1	344.5	13.6	3.8	70.8
2421	Sawmills and planing mills, general	-	56	31	2.8	40.3	2.5	4.9	33.1	165.0	174.3	334.9	13.4	3.5	69.0
2426	Hardwood dimension and flooring	-	5	3	0.3	1.6	0.2	0.4	1.4	2.8	3.1	5.9	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members	-	92	30	3.1	41.3	2.6	5.1	33.0	88.5	123.9	210.4	4.4	3.0	56.3
2431	Millwork	E1	32	9	1.1	14.2	0.9	1.7	10.8	30.0	46.4	76.4	0.7	(NA)	(NA)
2434	Wood kitchen cabinets	-	32	8	0.7	6.6	0.6	1.0	5.5	13.1	11.0	23.9	1.7	0.3	4.9
2435	Hardwood veneer and plywood	-	6	3	0.3	3.6	0.2	0.3	2.0	5.5	22.2	28.0	0.2	0.3	8.5
2438	Softwood veneer and plywood	-	5	3	0.6	11.4	0.6	1.4	10.9	26.9	29.7	54.7	1.4	(NA)	(NA)
2439	Structural wood members, n.e.c.	-	17	7	0.4	5.6	0.3	0.7	3.8	13.1	14.6	27.3	0.3	0.3	4.1
244	Wood containers	E3	13	4	0.3	2.3	0.3	0.5	2.0	3.7	6.5	10.1	0.2	(NA)	(NA)
245	Wood buildings and mobile homes	E1	9	4	0.4	5.0	0.4	0.8	3.5	10.0	15.1	25.0	0.4	(NA)	(NA)
2451	Mobile homes	E1	4	3	0.3	3.9	0.3	0.6	2.8	7.5	13.9	21.4	(D)	(NA)	(NA)
249	Miscellaneous wood products	E1	37	13	1.1	13.3	1.0	1.9	9.8	26.8	41.2	66.6	2.3	0.8	11.2
2491	Wood preserving	E1	7	5	0.3	4.6	0.3	0.5	3.5	8.3	24.6	32.8	0.6	(NA)	(NA)
2499	Wood products, n.e.c.	E1	30	8	0.8	8.7	0.7	1.3	6.3	18.3	16.6	33.8	1.7	(NA)	(NA)
25	Furniture and fixtures	-	82	24	2.3	24.3	1.9	3.5	17.4	47.1	41.6	89.7	1.1	2.1	30.0
251	Household furniture	E1	44	13	1.5	14.8	1.3	2.4	10.9	27.9	26.5	54.8	0.7	1.7	24.5
2511	Wood household furniture	E1	23	4	0.7	6.1	0.6	1.1	4.7	11.1	8.0	19.4	0.4	1.1	14.7
2512	Upholstered household furniture	E1	14	8	0.7	7.1	0.8	1.1	5.3	11.4	12.8	24.4	(D)	0.5	6.3
254	Partitions and fixtures	-	21	6	0.5	5.2	0.4	0.7	3.8	10.2	9.1	20.2	0.3	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Portland, Oreg.-Wash., SMSA—Con.														
26	Paper and allied products	–	41	25	6.5	112.4	5.1	10.3	84.1	273.2	432.1	706.0	24.5	8.7	155.4
2621	Paper mills, except building paper	–	4	4	3.4	66.1	2.6	5.2	48.1	171.1	208.1	380.9	17.0	3.5	97.1
264	Miscellaneous converted paper products	–	23	12	2.5	37.7	2.1	4.3	30.0	81.9	185.2	266.3	5.5	2.4	41.9
265	Paperboard containers and boxes	–	12	8	0.5	8.2	0.4	0.8	5.5	19.0	38.0	56.9	(D)	0.7	14.8
2711	Newspapers	–	30	10	2.0	25.9	0.7	1.2	9.2	60.0	31.5	91.8	2.1	1.7	35.8
275	Commercial printing	E1	199	24	1.8	24.6	1.3	2.3	18.5	44.9	33.5	78.0	2.5	1.3	22.2
2751	Commercial printing, letterpress	E4	100	7	0.5	5.1	0.4	0.7	3.5	8.6	6.0	14.6	(D)	0.3	4.7
2752	Commercial printing, lithographic	–	93	16	1.2	18.5	0.9	1.6	12.3	35.4	27.1	82.2	(D)	0.9	18.2
2761	Manifold business forms	E4	9	6	0.3	4.9	0.2	0.5	3.2	12.8	18.8	29.2	0.7	0.3	4.1
278	Blankbooks and bookbinding	–	9	6	0.4	4.2	0.3	0.6	3.3	7.9	2.9	10.7	0.3	(NA)	(NA)
28	Chemicals and allied products	–	83	29	1.8	25.4	1.0	1.9	12.0	94.9	118.4	212.8	8.3	1.5	48.9
281	Industrial inorganic chemicals	–	9	5	0.5	7.5	0.3	0.5	4.1	32.1	27.5	59.8	2.3	0.4	14.9
2851	Paints and allied products	E2	15	5	0.3	3.9	0.1	0.2	1.6	9.4	13.1	22.4	0.2	0.3	4.8
289	Miscellaneous chemical products	–	25	5	0.3	5.3	0.2	0.4	2.3	26.2	36.4	62.3	3.1	0.3	15.0
29	Petroleum and coal products	–	16	9	0.5	7.7	0.3	0.7	5.0	19.8	82.7	100.8	2.0	0.4	15.3
295	Paving and roofing materials	–	10	8	0.4	5.3	0.2	0.5	3.5	13.5	31.0	44.0	1.6	(NA)	(NA)
2952	Asphalt felts and coatings	–	7	5	0.3	4.5	0.2	0.5	3.0	10.5	27.5	37.7	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	–	73	27	1.9	20.9	1.5	2.9	13.5	48.3	47.1	94.5	3.0	1.2	18.2
3069	Fabricated rubber products, n.e.c.	–	7	5	0.4	4.3	0.3	0.5	2.8	9.0	6.7	15.6	0.3	(NA)	(NA)
3079	Miscellaneous plastics products	–	62	20	1.5	15.6	1.2	2.2	9.9	37.1	36.8	73.0	2.5	0.9	12.2
32	Stone, clay, and glass products	–	95	25	2.2	29.9	1.6	3.0	20.8	71.8	60.1	132.6	5.8	2.0	45.2
327	Concrete, gypsum, and plaster products	–	59	16	1.1	16.1	0.7	1.3	9.7	38.7	36.2	72.3	3.1	1.1	24.5
3272	Concrete products, n.e.c.	–	27	5	0.4	4.8	0.3	0.6	3.3	9.7	8.3	17.5	0.8	(NA)	(NA)
3273	Ready-mixed concrete	–	27	11	0.7	10.4	0.4	0.7	6.0	25.3	25.3	50.7	2.1	0.6	13.6
33	Primary metal industries	–	54	25	6.5	105.5	4.9	9.2	74.7	299.7	376.5	671.6	37.2	5.9	116.5
332	Iron and steel foundries	–	16	13	3.3	48.5	2.3	4.4	32.1	110.9	41.4	152.6	3.6	2.4	41.5
336	Nonferrous foundries	E2	18	3	0.3	3.7	0.2	0.5	2.8	6.8	4.6	11.3	0.4	(NA)	(NA)
34	Fabricated metal products	–	273	87	9.0	118.5	7.0	13.1	81.9	264.7	265.8	523.8	12.6	8.8	130.2
341	Metal cans and shipping containers	–	5	5	0.5	8.4	0.4	0.8	6.4	33.8	52.0	82.6	0.3	0.4	18.0
3429	Hardware, n.e.c.	–	16	5	1.4	12.8	1.2	2.1	10.7	26.8	26.2	53.5	(D)	0.8	14.3
344	Fabricated structural metal products	–	115	35	3.0	43.5	2.2	4.2	27.8	84.5	98.0	180.1	4.8	2.3	40.4
3441	Fabricated structural metal	–	30	11	0.9	13.8	0.7	1.3	10.0	25.4	24.2	49.0	2.0	0.5	7.6
3442	Metal doors, sash, and trim	–	22	8	0.7	7.6	0.5	1.1	4.8	18.1	24.9	42.6	0.4	0.4	4.3
3443	Fabricated plate work (boiler shops)	–	16	8	0.7	10.6	0.6	1.1	7.4	20.4	22.8	42.1	1.1	0.3	5.9
3444	Sheet metal work	–	36	7	0.5	7.5	0.4	0.6	4.9	15.0	18.5	33.4	1.1	0.8	13.4
345	Screw machine products, bolts, etc.	E1	4	4	0.3	3.6	0.2	0.3	2.4	7.1	6.2	13.5	0.3	(NA)	(NA)
346	Metal forgings and stampings	–	16	6	0.4	6.2	0.3	0.8	4.3	11.4	11.8	23.1	0.8	0.3	5.0
347	Metal services, n.e.c.	–	35	10	0.7	7.9	0.6	1.1	5.8	14.6	5.0	19.6	0.8	0.4	4.7
3471	Plating and polishing	–	23	8	0.5	6.3	0.5	0.9	4.7	11.9	3.1	14.9	0.7	0.3	3.6
349	Miscellaneous fabricated metal products	–	56	16	1.2	15.9	0.9	1.7	10.9	32.4	45.8	77.6	1.5	0.9	16.7
3496	Miscellaneous fabricated wire products	–	15	4	0.3	3.2	0.2	0.4	2.2	8.8	11.8	20.5	0.4	(NA)	(NA)
3499	Fabricated metal products, n.e.c.	–	22	4	0.4	5.3	0.3	0.6	3.8	10.7	17.1	27.6	0.4	(NA)	(NA)
35	Machinery, except electrical	–	326	89	11.4	175.3	7.1	12.8	93.0	396.3	282.6	659.0	34.3	7.8	147.7
352	Farm and garden machinery	–	14	5	0.3	4.4	0.3	0.5	3.4	8.5	14.5	23.1	(D)	(NA)	(NA)
354	Metalworking machinery	E1	25	3	0.3	4.3	0.3	0.5	3.2	9.5	4.1	12.7	0.6	0.3	5.0
355	Special industry machinery	–	62	27	2.3	37.3	1.5	2.8	20.6	67.4	64.8	129.4	2.7	1.6	37.1
3553	Woodworking machinery	–	34	15	0.9	15.1	0.6	1.2	9.4	31.0	33.6	62.5	1.4	0.7	17.3
3554	Paper industries machinery	–	8	4	0.3	4.2	0.2	0.3	2.2	7.0	4.0	11.1	0.1	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Portland, Oreg.-Wash., SMSA—Con.														
35	Machinery, except electrical —Con.														
356	General industrial machinery	-	39	11	2.2	33.6	1.5	2.2	18.0	66.0	45.2	111.0	1.9	1.8	27.7
3569	General industrial machinery, n.e.c.	-	10	2	0.3	4.6	0.2	0.3	2.0	6.4	6.2	12.6	0.2	(NA)	(NA)
358	Refrigeration and service machinery	E1	16	7	0.4	5.3	0.3	0.5	3.5	16.4	13.2	29.7	0.3	0.3	6.4
359	Miscellaneous machinery, except electrical	E2	123	18	1.2	16.5	0.9	1.7	11.3	29.1	12.2	40.9	1.5	0.9	14.1
36	Electric end electronic equipment	-	109	31	3.5	40.2	2.4	4.9	22.7	98.3	84.6	179.7	6.6	3.3	53.6
361	Electric distributing equipment	-	11	5	0.3	4.6	0.2	0.4	2.6	20.2	15.1	33.9	0.2	0.3	6.8
366	Communication equipment	-	14	2	0.6	6.7	0.4	0.8	3.1	20.0	13.3	31.2	0.3	1.5	23.0
367	Electronic components end accessories	E1	27	9	1.0	9.9	0.7	1.7	6.1	19.1	9.6	28.4	(D)	0.7	9.5
369	Miscelleneous electrical equipment and supplies	-	22	9	1.1	14.4	0.7	1.3	7.9	27.2	35.4	63.4	2.2	0.3	7.0
3691	Storage batteries	-	7	3	0.4	5.2	0.3	0.5	3.7	11.2	17.7	29.3	(D)	0.3	6.4
3699	Electrical equipment and supplies, n.e.c.	-	8	4	0.3	3.9	0.2	0.4	2.4	6.7	6.8	14.1	0.1	(NA)	(NA)
37	Transportation equipment	-	120	33	7.8	112.7	6.4	10.6	84.6	193.2	285.4	511.2	14.4	6.1	139.7
371	Motor vehicles and equipment	-	54	21	3.4	44.7	2.8	4.5	32.5	88.3	177.7	261.7	4.6	3.1	88.3
379	Miscellaneous transportation equipment	-	19	3	0.3	2.3	0.2	0.4	1.6	3.6	6.4	9.7	0.2	(NA)	(NA)
384	Medical instruments end supplies	E1	27	8	0.4	5.1	0.3	0.6	3.3	12.3	6.2	17.7	0.5	(NA)	(NA)
3841	Surgical end medical instruments	E1	11	7	0.3	3.6	0.2	0.4	2.2	8.6	4.0	12.4	0.4	(NA)	(NA)
394	Toys and sporting goods	E1	24	4	0.3	2.8	0.2	0.4	2.0	7.5	7.2	14.7	0.5	0.4	4.6
--	Administretive and auxiliary	-	67	35	4.7	89.4	-	-	-	-	-	-	-	(NA)	(NA)
	Salem SMSA	-	**419**	**120**	**15.3**	**177.7**	**12.7**	**21.7**	**130.7**	**427.4**	**586.9**	**1 001.7**	**31.8**	**12.1**	**222.1**
20	Food end kindred products	-	48	22	5.3	46.4	4.7	7.0	36.4	123.9	155.3	272.8	7.1	4.8	72.8
203	Preserved fruits end vegetables	-	21	14	4.7	39.1	4.3	6.3	32.3	106.7	112.1	211.2	4.5	4.3	63.6
2037	Frozen fruits and vegetables	-	9	6	2.4	22.5	2.2	3.6	18.5	75.4	65.0	133.1	(D)	2.3	25.7
24	Lumber end wood products	-	134	41	4.8	59.7	4.2	7.9	49.6	143.6	246.1	388.8	(D)	2.9	68.4
2411	Logging camps end logging contractors	-	68	6	1.1	13.6	0.9	1.7	11.3	42.5	59.8	101.9	4.6	(NA)	(NA)
242	Sawmills end planing mills	-	28	12	1.2	16.0	1.0	2.0	13.8	39.8	72.0	111.8	(D)	1.1	29.3
243	Millwork, plywood, end structural members	-	28	15	1.3	17.8	1.2	2.3	15.8	36.6	68.4	104.7	2.1	1.0	25.0
2434	Wood kitchen cabinets	-	13	3	0.3	2.6	0.2	0.4	2.1	6.4	7.8	14.0	(D)	(NA)	(NA)
27	Printing and publishing	-	32	3	0.7	8.2	0.4	0.7	4.1	24.9	9.0	33.9	(D)	0.7	17.3
34	Fabricated metal products	-	39	13	1.0	12.3	0.8	1.4	8.1	36.9	55.3	89.7	2.1	0.7	10.8
344	Fabricated structural metal products	-	28	10	0.8	9.3	0.6	1.1	6.2	23.1	37.2	58.3	1.2	(NA)	(NA)
35	Mechinery, except electrical	E1	45	9	1.1	18.2	0.7	1.3	9.5	30.0	34.3	62.8	1.0	1.2	21.1

Note: "All industries" level includes deta on number of establishments, total employment, end totel peyroll for centrel edministretive offices end auxiliaries (for definition, see eppendix B).
- Represents zero. (D) Withheld to evoid disclosing operetions of individual companies. (NA) Not aveileble. (S) Withheld beceuse estimete did not meet publication standards.
(Z) Less then 50 thousand dollars or hours; under 50 employees.

[1]Peyroll end seles data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obteined from administretive records of other government egencies rather then from census report forms. These deta were then used in conjunction with industry avereges to estimete the belence of items shown for these smell esteblishments. This technique was also used for e smell number of other establishments whose reports were not received et time deta were tabuleted. The following symbols ere shown for those States where estimated dete beged on administretive records deta account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregete of cost of meteriels and value of shipments for industry groups (2- end 3-digit) and for ell menufecturing industries includes extensive duplicetion, since products of some industries are used es meteriels by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Baker County	-	36	8	0.8	9.0	0.5	1.1	7.2	16.2	25.9	42.0	2.6	0.6	14.7
	Benton County	-	142	40	2.8	35.2	2.2	4.4	25.5	79.0	125.5	203.2	12.8	2.7	44.3
24	Lumber and wood products	-	78	23	1.6	20.4	1.4	2.9	17.5	46.7	93.4	139.4	10.3	1.7	30.0
242	Sawmills and planing mills	-	20	13	0.7	8.2	0.7	1.4	7.0	16.5	46.0	82.8	8.3	0.7	12.1
	Clackamas County	-	429	96	12.8	165.7	8.9	18.6	111.6	484.4	445.0	900.1	49.4	12.1	240.6
24	Lumber and wood products	-	120	24	2.4	33.8	2.0	3.9	27.0	76.9	116.8	191.8	7.8	2.2	36.9
2411	Logging camps and logging contractors	E1	66	5	0.5	8.2	0.4	0.7	5.7	9.9	20.7	30.4	1.9	(NA)	(NA)
242	Sawmills and planing mills	-	26	11	1.3	19.9	1.2	2.4	17.2	55.2	82.4	136.8	5.3	1.1	23.1
2421	Sawmills and planing mills, general	-	18	11	1.2	19.4	1.1	2.3	18.8	54.5	81.4	134.9	5.2	(NA)	(NA)
26	Paper and allied products	-	5	5	1.8	31.5	1.3	2.4	22.4	83.2	87.9	170.8	(D)	1.9	46.8
34	Fabricated metal products	-	49	9	1.7	24.4	1.3	2.3	18.4	64.3	39.8	103.5	2.7	(NA)	(NA)
35	Machinery, except electrical	-	70	18	3.0	43.3	1.5	2.7	18.2	130.8	70.0	193.7	(D)	1.3	28.8
36	Electric and electronic equipment	-	13	4	0.6	8.0	0.4	0.7	3.8	15.6	19.7	35.3	(D)	(NA)	(NA)
	Clatsop County	-	91	21	2.5	32.8	2.1	3.8	24.4	39.1	112.7	150.7	6.3	2.6	41.0
20	Food and kindred products	E1	19	10	1.2	9.3	1.1	1.7	8.0	18.4	49.9	66.3	3.0	1.2	13.7
209	Miscellaneous foods and kindred products	E1	12	9	1.1	8.2	1.0	1.6	7.2	14.3	45.0	59.3	(D)	1.2	11.3
24	Lumber and wood products	-	44	5	0.9	17.0	0.8	1.6	14.4	15.8	57.6	72.4	3.1	1.0	22.6
	Columbia County	-	92	21	3.5	59.8	3.0	5.7	47.9	217.9	250.8	466.4	20.0	3.2	112.3
24	Lumber and wood products	-	60	11	1.5	23.5	1.4	2.7	19.9	41.5	102.1	142.7	2.9	1.2	33.7
	Coos County	-	191	42	5.6	77.6	4.8	9.0	85.9	166.4	333.8	499.8	16.4	5.1	113.2
20	Food and kindred products	-	15	7	0.5	3.0	0.4	0.6	2.3	7.5	20.3	27.8	(D)	(NA)	(NA)
24	Lumber and wood products	-	125	29	4.8	66.1	4.1	7.7	58.0	138.5	293.5	431.9	11.1	4.2	99.8
2411	Logging camps and logging contractors	-	87	10	1.5	22.1	1.3	2.2	19.1	49.5	119.9	169.0	8.2	(NA)	(NA)
242	Sawmills and planing mills	-	22	10	1.7	24.2	1.5	2.9	21.5	39.9	115.8	155.7	1.5	2.2	46.3
243	Millwork, plywood, and structural members	-	6	5	1.2	18.3	1.1	2.2	14.7	40.5	51.6	92.1	(D)	(NA)	(NA)
2436	Softwood veneer and plywood	-	6	5	1.2	16.3	1.1	2.2	14.7	40.5	51.6	92.1	(D)	(NA)	(NA)
	Crook County	-	37	12	1.7	21.5	1.5	2.8	16.6	52.7	71.7	124.7	1.6	1.9	37.9
24	Lumber and wood products	-	32	12	1.7	21.4	1.5	2.8	18.5	52.5	70.9	123.8	1.8	1.9	37.8
242	Sawmills and planing mills	-	10	7	0.8	11.5	0.7	1.3	9.7	25.0	36.4	63.9	1.1	0.7	22.5
2421	Sawmills and planing mills, general	-	10	7	0.8	11.5	0.7	1.3	9.7	25.0	36.4	63.9	1.1	(NA)	(NA)
243	Millwork, plywood, and structural members	-	4	3	0.8	8.2	0.7	1.3	7.4	24.0	30.9	52.7	-	1.1	13.1
2431	Millwork	-	4	3	0.8	8.2	0.7	1.3	7.4	24.0	30.9	52.7	-	(NA)	(NA)
	Curry County	-	64	11	1.3	18.6	1.2	2.4	18.6	40.7	59.4	95.3	4.0	1.7	25.4
24	Lumber and wood products	-	43	9	1.1	17.5	1.1	2.2	15.7	38.0	54.4	87.6	3.8	1.5	24.7
	Deschutes County	-	125	27	3.2	38.9	2.7	5.1	30.2	70.1	127.0	196.1	9.3	2.8	50.4
24	Lumber and wood products	-	58	15	2.3	30.9	2.0	3.9	24.8	54.2	106.3	160.2	8.0	2.1	41.3
243	Millwork, plywood, and structural members	-	9	5	0.8	7.9	0.7	1.2	8.2	12.5	38.2	51.0	(D)	1.1	17.6
	Douglas County	-	297	89	9.7	134.6	8.6	17.1	114.8	296.6	472.2	758.6	45.8	10.8	206.8
24	Lumber and wood products	-	218	53	8.1	110.3	7.3	14.8	97.9	239.2	394.1	633.6	35.4	8.9	170.2
242	Sawmills and planing mills	-	29	17	2.1	28.6	1.9	3.9	24.4	55.6	111.8	168.0	23.8	2.3	46.5
243	Millwork, plywood, and structural members	-	19	15	4.2	58.5	4.0	8.2	53.7	118.8	214.9	335.8	4.9	4.2	81.6
	Grant County	-	40	7	0.8	8.6	0.5	1.1	7.6	19.6	29.6	49.5	1.7	0.4	10.4
24	Lumber and wood products	-	31	7	0.5	8.4	0.5	1.0	7.7	19.1	29.2	48.7	1.7	(NA)	(NA)
	Hood River County	-	43	12	1.4	18.9	1.2	2.3	13.4	39.4	49.0	68.4	1.5	1.1	23.4
24	Lumber and wood products	-	26	6	0.6	10.1	0.5	1.1	8.3	23.5	35.1	58.5	0.9	0.6	18.1
	Jackson County	-	271	88	7.9	102.6	6.5	12.3	79.6	289.8	330.7	601.5	15.6	7.2	159.4
24	Lumber and wood products	-	140	38	5.7	75.6	4.9	9.3	82.6	181.9	243.6	426.8	9.9	5.6	112.8
2411	Logging camps and logging contractors	E4	92	9	0.7	8.5	0.6	1.1	7.0	20.6	20.4	40.8	2.9	(NA)	(NA)
242	Sawmills and planing mills	-	12	8	0.8	11.3	0.7	1.5	9.5	29.7	36.8	65.9	(D)	0.9	20.3
2421	Sawmills and planing mills, general	-	12	8	0.8	11.3	0.7	1.5	9.5	29.7	36.8	65.9	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members	-	23	16	3.8	48.9	3.2	5.9	41.7	113.6	169.8	285.4	3.4	3.4	74.6
2436	Softwood veneer and plywood	-	9	9	2.5	36.5	2.3	4.2	32.9	94.4	131.7	227.3	3.0	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Jefferson County	-	23	5	0.8	4.5	0.7	0.7	3.8	9.4	18.7	28.4	1.2	0.2	3.7
	Josephine County	-	128	31	3.4	43.2	2.9	5.7	35.7	110.8	148.6	257.5	5.3	2.3	48.3
24	Lumber and wood products	-	73	24	2.5	34.0	2.3	4.6	30.9	77.4	126.0	202.8	4.1	1.7	37.7
242	Sawmills and planing mills	-	16	9	0.8	9.7	0.8	1.4	8.3	26.5	48.2	75.9	1.3	0.7	15.4
2421	Sawmills and planing mills, general	-	16	9	0.8	9.7	0.8	1.4	8.3	26.5	48.2	75.9	1.3	(NA)	(NA)
243	Millwork, plywood, and structural members	-	13	7	1.3	20.2	1.3	2.6	19.1	38.5	71.9	108.9	1.1	0.6	15.4
	Klamath County	-	108	41	4.8	68.1	4.0	7.9	55.7	150.5	240.8	389.3	17.7	4.5	84.0
24	Lumber and wood products	-	66	30	4.2	61.4	3.7	7.4	52.9	139.3	225.2	362.7	16.9	4.0	77.0
242	Sawmills and planing mills	-	11	9	1.9	29.2	1.7	3.5	24.9	62.2	106.3	168.6	5.3	2.5	46.0
2421	Sawmills and planing mills, general	-	11	9	1.9	29.2	1.7	3.5	24.9	82.2	106.3	168.6	5.3	(NA)	(NA)
243	Millwork, plywood, and structural members	-	11	10	1.1	14.9	1.0	1.9	13.1	32.9	51.8	83.2	1.5	0.7	13.3
	Lane County (Coextensive with Eugene-Springfield, Oreg., SMSA; see table 6.)														
	Lincoln County	-	84	17	2.0	27.8	1.7	3.0	22.8	73.8	123.9	197.2	23.0	1.8	39.7
24	Lumber and wood products	E2	52	11	1.0	12.8	0.9	1.6	11.0	27.7	49.1	75.6	(D)	0.8	17.9
	Linn County	-	245	78	11.1	168.9	9.1	17.5	129.9	401.5	559.0	955.4	29.8	9.4	212.4
20	Food and kindred products	-	15	6	1.0	9.9	0.9	1.6	8.1	23.7	35.5	58.7	1.0	0.9	11.2
203	Preserved fruits and vegetables	-	3	3	0.8	7.3	0.7	1.3	6.3	15.9	22.2	37.8	(D)	0.6	6.9
24	Lumber and wood products	-	137	51	5.5	80.3	4.9	9.4	67.7	180.9	347.3	527.7	11.2	5.1	106.0
2411	Logging camps and logging contractors	E1	82	15	1.0	12.5	0.8	1.5	10.3	35.6	74.1	111.7	3.7	(NA)	(NA)
242	Sawmills and planing mills	-	17	9	0.8	12.7	0.8	1.5	10.6	24.2	61.8	85.3	0.9	0.7	14.3
2421	Sawmills and planing mills, general	-	13	8	0.8	11.9	0.7	1.4	10.0	21.7	60.9	82.1	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members	-	27	18	2.8	42.7	2.5	4.9	36.9	91.8	175.8	268.0	4.0	2.4	61.3
2438	Softwood veneer and plywood	-	15	15	2.5	39.7	2.3	4.5	34.8	86.7	165.8	251.1	3.7	(NA)	(NA)
	Malheur County	-	32	5	1.8	18.4	1.5	2.8	13.8	36.5	62.8	92.7	1.1	1.3	29.2
20	Food and kindred products	-	9	3	1.6	16.6	1.4	2.4	12.5	31.0	59.4	83.8	0.7	(NA)	(NA)
	Marion County	-	330	94	12.0	132.9	10.0	17.1	97.9	334.7	431.2	754.0	26.9	9.1	161.6
2037	Frozen fruits and vegetables	-	9	6	2.4	22.5	2.2	3.6	18.5	75.4	65.0	133.1	(D)	(NA)	(NA)
24	Lumber and wood products	E1	84	25	3.1	34.7	2.7	5.1	27.8	80.4	136.8	216.7	10.3	1.5	31.4
2411	Logging camps and logging contractors	-	39	2	0.8	9.7	0.7	1.3	8.2	29.1	32.3	61.4	3.7	(NA)	(NA)
34	Fabricated metal products	-	33	13	1.0	12.2	0.7	1.4	8.0	36.6	55.0	89.2	2.0	(NA)	(NA)
	Multnomah County	-	1 372	422	51.3	716.0	34.5	63.2	420.5	1 515.1	1 862.8	3 362.4	109.1	46.5	615.6
20	Food and kindred products	-	101	56	5.2	79.3	3.2	8.2	43.9	228.1	519.8	749.6	11.8	6.6	165.9
201	Meat products	E1	13	9	1.1	15.9	0.8	1.7	11.9	34.0	165.8	199.6	1.8	(NA)	(NA)
205	Bakery products	-	20	9	1.5	23.2	1.0	1.9	13.4	75.4	43.3	119.3	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	-	38	11	0.7	6.3	0.6	1.1	4.0	13.2	13.8	26.7	(D)	(NA)	(NA)
24	Lumber and wood products	-	91	25	2.8	34.5	2.5	4.7	27.8	131.6	129.2	254.5	8.5	3.6	60.1
242	Sawmills and planing mills	-	21	11	0.8	10.3	0.7	1.3	8.1	77.6	58.0	131.2	6.4	1.6	32.4
243	Millwork, plywood, and structural members	-	32	7	1.1	15.9	1.0	1.9	13.2	37.0	43.1	78.2	1.3	1.1	18.2
2431	Millwork	-	17	3	0.7	9.4	0.6	1.1	7.5	20.4	23.0	43.3	0.3	(NA)	(NA)
25	Furniture and fixtures	-	50	16	1.8	17.1	1.3	2.4	11.8	32.4	26.9	59.4	(D)	1.8	26.0
251	Household furniture	E1	21	8	1.0	9.8	0.9	1.6	7.0	19.0	17.0	36.4	(D)	(NA)	(NA)
2752	Commercial printing, lithographic	-	71	13	1.0	16.1	0.7	1.3	10.7	31.1	24.2	55.1	(D)	(NA)	(NA)
28	Chemicals and allied products	-	58	22	1.4	20.7	0.8	1.4	9.6	68.4	93.9	161.7	6.1	1.1	28.5
30	Rubber and miscellaneous plastics products	-	36	12	1.1	11.2	0.9	1.7	7.4	28.3	26.1	53.6	1.4	0.5	7.3
3079	Miscellaneous plastics products	-	28	6	0.7	6.4	0.6	1.1	4.1	18.1	16.3	33.7	0.9	(NA)	(NA)
32	Stone, clay, and glass products	-	46	11	1.3	17.7	1.0	1.8	13.1	42.1	28.7	71.7	3.1	1.3	32.9
327	Concrete, gypsum, and plaster products	-	21	5	0.6	8.0	0.3	0.7	5.2	17.2	15.9	32.9	1.3	0.8	16.1

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Multnomah County—Con.													
34	Fabricated metal products	-	167	61	5.8	89.5	4.3	8.1	47.8	143.9	166.9	307.3	7.2	4.4	81.9
342	Cutlery, hand tools, and hardware	-	16	6	1.5	13.4	1.3	2.2	11.2	28.8	28.5	55.8	1.8	1.0	17.5
344	Fabricated structural metal products	-	63	22	1.8	24.5	1.2	2.4	14.1	45.2	63.0	107.8	2.3	1.8	28.5
347	Metal services, n.e.c.	-	27	9	0.5	6.3	0.5	0.9	4.5	12.0	4.4	18.4	0.7	(NA)	(NA)
349	Miscellaneous fabricated metal products	E1	35	13	0.9	11.6	0.7	1.3	7.9	21.1	27.8	48.5	1.1	(NA)	(NA)
35	Machinery, except electrical	-	181	54	6.3	97.1	4.3	7.5	58.3	202.0	154.7	346.3	(D)	5.1	91.0
355	Special industry machinery	-	33	13	0.8	11.7	0.5	1.0	7.8	21.3	25.4	45.2	(D)	0.8	13.1
359	Miscellaneous machinery, except electrical	E2	72	13	0.8	11.5	0.8	1.2	7.8	19.9	7.8	27.8	(D)	0.8	10.5
36	Electric and electronic equipment	-	53	12	1.8	18.3	1.2	2.6	10.7	43.0	31.0	72.8	1.0	1.4	19.8
367	Electronic components and accessories	-	12	4	0.7	6.3	0.4	1.0	3.3	11.6	4.7	18.4	(D)	(NA)	(NA)
37	Transportation equipment	-	76	24	6.7	97.4	5.5	8.9	74.3	165.8	249.7	448.4	(D)	4.2	97.7
371	Motor vehicles and equipment	-	33	14	2.5	31.9	2.2	3.2	23.9	64.8	148.0	208.7	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories	-	21	6	1.2	15.2	1.0	1.5	11.3	30.9	47.7	78.0	(D)	(NA)	(NA)
--	Administrative and auxiliary	-	44	24	3.7	70.9	-	-	-	-	-	-	-	(NA)	(NA)
	Polk County	-	89	28	3.2	44.8	2.7	4.8	32.6	92.8	155.7	247.7	4.9	3.0	60.5
24	Lumber and wood products	-	50	16	1.7	25.0	1.5	2.9	21.8	63.3	109.3	172.1	(D)	1.4	37.0
	Tillamook County	-	63	13	1.4	19.7	1.3	2.4	18.9	40.4	90.9	129.0	3.2	1.7	30.2
24	Lumber and wood products	-	48	11	1.1	15.4	1.0	1.9	13.7	30.8	52.0	82.4	2.5	1.5	27.0
242	Sawmills and planing mills	-	14	5	0.5	6.6	0.4	0.9	5.9	18.0	24.0	41.9	0.8	(NA)	(NA)
	Umatilla County	-	87	25	3.7	38.7	3.1	6.2	30.3	81.7	148.9	227.9	6.4	2.9	44.2
20	Food and kindred products	-	14	9	1.5	15.0	1.3	2.5	12.1	32.9	76.5	109.4	(D)	0.7	13.8
203	Preserved fruits and vegetables	-	8	6	1.3	12.4	1.2	2.2	10.4	28.0	43.6	71.8	(D)	0.6	10.0
24	Lumber and wood products	E1	29	6	1.1	11.8	1.0	2.2	10.2	19.2	37.0	55.4	2.1	1.3	18.4
242	Sawmills and planing mills	-	5	3	0.7	7.0	0.6	1.5	6.2	10.6	17.5	27.7	0.8	(NA)	(NA)
	Union County	-	59	9	1.6	23.3	1.4	2.7	19.2	57.0	84.0	120.7	(D)	1.6	41.8
24	Lumber and wood products	-	42	8	1.4	20.0	1.2	2.3	18.9	48.8	47.5	96.2	(D)	1.3	35.3
	Wasco County	-	21	7	1.1	18.3	0.8	1.6	12.6	44.8	84.6	113.6	4.4	1.1	27.6
	Washington County	-	381	135	23.1	309.3	15.0	28.4	153.6	533.0	598.4	1 105.5	44.6	18.4	294.3
20	Food and kindred products	-	26	12	1.8	19.2	1.1	2.0	11.2	54.8	88.0	140.2	3.3	1.9	34.4
24	Lumber and wood products	E1	67	26	2.1	23.9	1.7	3.3	18.2	51.5	80.7	131.2	4.8	1.8	26.5
242	Sawmills and planing mills	-	12	7	0.6	7.1	0.5	1.0	5.9	14.5	27.7	41.5	0.9	0.5	6.5
243	Millwork, plywood, and structural members	E1	20	11	0.9	9.8	0.7	1.3	7.0	20.9	35.1	55.5	2.1	0.6	13.2
27	Printing and publishing	-	28	8	0.9	9.7	0.5	1.0	5.5	20.2	19.9	39.6	1.5	(NA)	(NA)
34	Fabricated metal products	-	31	11	1.2	16.9	1.0	1.8	11.8	36.3	35.7	70.7	2.0	0.6	12.7
35	Machinery, except electrical	E1	46	13	1.3	20.4	0.7	1.5	9.8	44.8	35.7	78.7	3.1	(NA)	(NA)
355	Special industry machinery	-	7	5	0.5	8.7	0.2	0.5	3.1	21.1	14.1	34.8	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	38	13	1.0	12.3	0.7	1.4	7.8	35.7	29.4	63.3	(D)	0.6	12.5
37	Transportation equipment	-	17	6	0.7	9.6	0.5	0.9	8.4	17.0	20.6	37.5	(D)	(NA)	(NA)
371	Motor vehicles and equipment	-	12	6	0.7	9.3	0.5	0.9	6.2	16.6	20.2	36.7	(D)	(NA)	(NA)
	Yamhill County	-	139	45	4.6	63.1	3.7	7.0	45.3	152.7	230.0	376.3	10.9	3.1	67.3
20	Food and kindred products	-	18	9	0.8	7.2	0.5	1.0	5.3	20.4	51.9	71.5	0.9	0.5	11.5
24	Lumber and wood products	-	55	17	1.7	24.1	1.5	3.0	20.0	56.6	101.3	156.2	3.5	1.3	24.2
243	Millwork, plywood, and structural members	-	6	3	0.5	7.2	0.5	0.9	8.5	15.7	28.7	43.8	1.5	(NA)	(NA)
245	Wood buildings and mobile homes	-	5	4	0.6	9.1	0.5	1.1	6.7	21.7	38.5	60.0	0.2	(NA)	(NA)

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Astoria	-	45	11	1.4	17.8	1.2	2.0	12.5	24.3	50.4	74.7	3.0	1.4	22.5
20	Food and kindred products	E1	11	5	0.8	5.9	0.7	1.2	5.2	8.4	35.1	43.5	2.3	0.8	8.2
209	Miscellaneous foods and kindred products	E1	8	5	0.8	5.6	0.7	1.1	5.0	7.7	33.9	41.6	(D)	(NA)	(NA)
	Baker	-	28	8	0.5	8.9	0.4	0.8	5.4	11.8	20.7	32.3	(D)	0.6	11.0
	Beaverton	-	79	32	2.8	37.7	1.8	3.4	21.2	82.2	103.3	182.8	5.8	1.4	26.3
20	Food and kindred products	-	6	5	0.7	9.8	0.5	0.8	5.1	22.7	21.3	43.8	1.0	(NA)	(NA)
	Bend	-	75	11	1.2	12.2	1.0	1.8	9.2	28.1	31.7	59.4	2.4	1.7	25.8
24	Lumber and wood products	-	31	5	0.6	7.9	0.5	1.1	6.2	19.3	24.8	44.1	(D)	1.0	19.0
	Corvallis	-	79	22	1.7	21.5	1.2	2.3	13.9	45.6	59.4	104.5	3.0	(D)	(D)
	Dallas	-	29	5	1.1	17.9	0.8	1.4	11.2	38.0	49.8	84.0	(D)	1.0	19.9
	Eugene	-	271	77	7.9	101.8	8.0	11.2	87.2	220.9	277.0	494.2	17.8	5.7	105.3
20	Food and kindred products	-	20	10	1.2	15.6	0.9	1.7	9.1	34.3	39.9	74.1	(D)	(NA)	(NA)
2436	Softwood veneer and plywood	-	9	8	1.1	15.5	1.0	2.0	13.6	30.5	69.2	98.6	(D)	(NA)	(NA)
27	Printing and publishing	E1	38	8	0.7	9.2	0.4	0.6	3.9	20.2	7.4	27.5	(D)	(NA)	(NA)
35	Machinery, except electrical	-	24	6	0.5	6.9	0.4	0.7	4.3	16.8	12.6	28.8	(D)	(NA)	(NA)
	Forest Grove	-	32	12	1.2	13.1	1.0	1.9	9.5	25.1	45.0	69.1	2.8	(D)	(D)
24	Lumber and wood products	-	14	5	0.5	6.2	0.4	0.8	4.7	12.2	23.9	36.0	0.8	(NA)	(NA)
	Grants Pass	-	85	20	2.8	33.3	2.2	4.4	27.3	84.0	108.4	192.1	3.7	1.3	26.6
24	Lumber and wood products	-	47	13	1.8	24.7	1.7	3.3	22.7	52.0	89.4	140.2	2.6	0.8	21.1
	Hillsboro	-	54	23	1.7	17.0	1.3	2.3	12.1	51.3	66.6	117.3	3.0	1.6	29.3
	Hood River	-	30	7	0.9	9.3	0.7	1.5	6.8	20.8	21.4	41.7	0.8	(NA)	(NA)
	Klamath Falls	-	72	23	3.3	48.0	2.8	5.4	38.9	112.2	178.5	289.0	14.7	3.2	61.9
24	Lumber and wood products	-	40	14	2.8	42.3	2.5	5.0	38.4	101.8	165.2	265.5	14.0	2.9	55.1
242	Sawmills and planing mills	-	4	4	1.2	19.5	1.1	2.3	16.6	45.8	76.4	122.0	(D)	(NA)	(NA)
2421	Sawmills and planing mills, general	-	4	4	1.2	19.5	1.1	2.3	16.6	45.8	76.4	122.0	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members	-	5	4	0.6	8.1	0.5	1.0	7.2	18.7	27.8	45.4	(D)	(NA)	(NA)
	La Grande	-	30	8	1.0	14.3	0.8	1.5	10.9	31.2	41.3	71.9	2.1	0.7	18.7
	Lebanon	-	40	13	1.9	29.0	1.7	3.3	23.8	59.7	96.0	155.6	3.1	1.7	40.3
	McMinnville	-	48	22	2.2	28.9	1.7	3.3	20.3	65.0	120.8	182.2	2.4	1.5	28.2
20	Food and kindred products	-	8	7	0.5	5.7	0.4	0.7	4.1	16.6	46.6	63.1	0.6	(NA)	(NA)
	Medford	-	101	25	3.3	43.8	2.6	5.0	32.8	113.4	121.8	235.8	7.1	3.1	87.9
24	Lumber and wood products	-	36	11	2.3	32.0	1.9	3.6	25.4	82.4	93.7	177.3	3.6	(NA)	(NA)
243	Millwork, plywood, and structural members	-	8	8	1.7	25.2	1.5	2.9	20.8	64.4	80.1	145.6	2.6	(NA)	(NA)
	Milwaukie	-	85	18	2.8	35.6	1.8	3.4	22.0	88.3	49.1	134.5	3.7	3.9	88.8
	Newberg	-	34	10	1.2	18.0	0.9	1.8	11.0	48.3	38.8	86.4	5.5	(NA)	(NA)
	Oregon City	-	28	8	1.0	17.5	0.7	1.2	10.3	50.3	44.6	94.9	(D)	1.0	27.4
	Pendleton	-	26	8	1.0	10.5	0.8	1.8	8.2	12.9	45.7	58.7	1.4	1.2	14.6
	Portland	-	1 137	345	42.7	598.9	27.5	50.1	329.3	1 223.8	1 485.9	2 700.2	(D)	40.8	737.5
20	Food and kindred products	-	87	50	4.8	73.2	3.0	5.7	41.3	209.1	399.6	608.5	11.3	6.0	157.2
2028	Fluid milk	-	8	7	0.8	10.9	0.3	0.5	4.6	30.2	68.6	98.4	0.7	(NA)	(NA)
209	Miscellaneous foods and kindred products	-	18	8	0.5	5.1	0.4	0.6	3.2	15.2	26.8	42.0	0.7	(NA)	(NA)
24	Lumber and wood products	-	49	15	1.8	23.0	1.5	2.7	18.1	106.9	100.8	204.2	7.0	2.7	46.1
2431	Millwork	-	13	3	0.7	9.0	0.6	1.0	7.2	19.9	22.2	42.1	(D)	(NA)	(NA)
25	Furniture and fixtures	-	43	13	1.4	14.8	1.1	2.1	10.3	29.0	23.9	53.0	(D)	1.7	23.9
2511	Wood household furniture	-	9	3	0.6	5.3	0.5	0.9	4.0	9.8	7.0	16.8	0.3	(NA)	(NA)
27	Printing and publishing	E1	218	35	3.2	45.9	1.9	3.4	25.1	95.9	53.6	149.0	4.2	3.0	59.9
28	Chemicals and allied products	-	53	20	1.3	19.6	0.7	1.3	9.2	69.4	94.0	162.5	5.9	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	30	11	1.0	10.7	0.8	1.6	7.0	26.6	24.2	50.3	1.3	0.6	9.5
3079	Miscellaneous plastics products	-	22	5	0.7	5.9	0.5	1.0	3.8	16.5	14.4	30.3	0.8	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Portland—Con.														
32	Stone, clay, and glass products	-	36	8	0.7	9.4	0.5	0.8	6.0	20.8	17.0	37.5	1.8	0.7	14.5
327	Concrete, gypsum, and plaster products	-	17	4	0.5	7.2	0.3	0.6	4.5	15.9	14.0	29.7	1.3	(NA)	(NA)
33	Primary metal industries	-	24	11	3.4	49.7	2.4	4.6	32.8	114.1	58.5	172.5	3.6	2.8	47.8
332	Iron and steel foundries	-	7	6	2.9	43.4	2.0	3.8	28.0	101.5	35.9	137.7	2.6	(NA)	(NA)
34	Fabricated metal products	-	131	44	4.1	52.6	3.1	5.7	35.7	101.2	114.6	212.6	4.7	3.8	72.3
3429	Hardware, n.e.c.	-	7	3	1.0	8.5	0.9	1.3	7.1	14.2	17.8	32.3	0.3	(NA)	(NA)
347	Metal services, n.e.c.	-	25	8	0.5	5.5	0.4	0.8	3.9	10.6	4.1	14.6	0.7	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	26	9	0.7	9.9	0.5	1.1	6.8	18.6	24.2	42.5	0.9	(NA)	(NA)
35	Machinery, except electrical	-	149	41	5.8	88.0	3.6	6.0	45.5	181.7	137.7	310.2	20.9	4.3	85.3
355	Special industry machinery	-	27	11	0.7	9.8	0.4	0.8	6.1	19.5	15.2	33.4	1.1	(NA)	(NA)
3553	Woodworking machinery	-	19	8	0.5	7.8	0.3	0.6	5.0	15.9	12.0	26.5	0.9	(NA)	(NA)
36	Electric and electronic equipment	E1	44	8	1.4	14.6	1.0	2.2	8.4	35.8	26.3	60.8	0.8	0.9	14.5
367	Electronic components and accessories	-	9	2	0.5	4.0	0.3	0.8	2.2	7.7	3.1	10.6	0.1	(NA)	(NA)
37	Transportation equipment	-	55	16	4.8	70.7	4.0	6.5	55.2	105.6	225.9	364.9	(D)	3.6	87.3
--	Administrative and auxiliary	-	41	23	3.7	70.9	-	-	-	-	-	-	-	(NA)	(NA)
	Redmond	-	**25**	**5**	**0.5**	**7.2**	**0.4**	**0.8**	**5.8**	**12.9**	**29.2**	**42.1**	**1.1**	**(NA)**	**(NA)**
	Roseburg	-	98	**24**	**2.2**	**30.0**	**1.9**	**3.7**	**24.4**	**85.0**	**101.9**	**188.8**	**5.5**	**1.9**	**28.1**
24	Lumber and wood products	-	66	18	1.7	23.6	1.5	3.1	20.8	52.0	89.2	142.9	(D)	0.9	17.7
2411	Logging camps and logging contractors	-	51	9	0.5	6.6	0.4	0.8	5.6	21.7	23.8	45.2	1.9	(NA)	(NA)
	St. Helens	-	**17**	**5**	**1.4**	**24.7**	**1.2**	**2.2**	**20.0**	**85.0**	**93.2**	**177.8**	**(D)**	**(NA)**	**(NA)**
	Salem	-	**150**	**47**	**8.2**	**89.1**	**5.0**	**8.0**	**49.8**	**153.2**	**209.7**	**362.3**	**11.5**	**5.7**	**108.8**
20	Food and kindred products	-	25	16	2.9	24.4	2.6	3.6	18.8	47.5	86.8	135.4	4.2	2.6	46.3
203	Preserved fruits and vegetables	-	13	9	2.5	18.5	2.3	3.1	15.7	35.2	55.0	90.0	2.4	(NA)	(NA)
2033	Canned fruits and vegetables	-	8	7	2.1	15.9	2.0	2.6	13.2	29.2	44.6	73.4	2.1	(NA)	(NA)
	Seaside	-	**28**	**2**	**0.5**	**8.3**	**0.4**	**0.7**	**6.0**	**1.2**	**32.8**	**33.9**	**(D)**	**(NA)**	**(NA)**
	Silverton	-	**26**	**4**	**0.5**	**4.3**	**0.3**	**0.5**	**2.9**	**8.7**	**11.1**	**19.7**	**1.4**	**(NA)**	**(NA)**
	Springfield	-	86	**28**	**5.1**	**78.7**	**4.3**	**9.1**	**80.9**	**187.9**	**339.6**	**526.0**	**(D)**	**4.9**	**130.1**
24	Lumber and wood products	-	47	19	3.8	58.2	3.4	7.4	49.1	148.7	242.1	389.0	(D)	3.6	86.0
2421	Sawmills and planing mills, general	-	7	5	1.5	19.8	1.3	2.9	16.3	46.3	75.7	121.6	(D)	(NA)	(NA)
	Stayton	-	**18**	**8**	**1.6**	**14.7**	**1.4**	**2.4**	**12.2**	**45.0**	**44.4**	**83.0**	**2.1**	**1.5**	**17.1**
	Woodburn	-	**23**	**10**	**1.8**	**18.1**	**1.5**	**2.7**	**13.0**	**51.2**	**68.2**	**118.8**	**3.0**	**(D)**	**(D)**

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
OREGON	5716	413	-	23	116	2184	123	55	544	110	29	103	26	226	72	406	560	149	210	81	185	101
1 TO 4 EMPLOYEES	2624	138	-	8	53	1033	50	11	341	31	6	38	13	93	19	169	277	53	104	42	120	25
5 TO 9 EMPLOYEES	805	49	-	2	20	297	22	2	61	23	6	17	6	50	7	52	80	35	24	10	24	18
10 TO 19 EMPLOYEES	707	45	-	1	19	246	20	5	63	16	3	19	1	32	13	63	73	15	26	11	23	13
20 TO 49 EMPLOYEES	738	76	-	5	12	244	16	7	44	26	10	17	4	36	13	60	75	21	28	10	13	21
50 TO 99 EMPLOYEES	370	43	-	4	5	148	10	7	19	12	3	9	2	5	5	37	27	10	13	2	1	8
100 TO 249 EMPLOYEES	318	43	-	2	6	149	4	9	13	1	1	3	-	9	5	17	20	11	7	2	4	12
250 TO 499 EMPLOYEES	104	12	-	-	1	55	1	7	2	1	-	-	-	-	4	7	3	4	3	2	-	2
500 TO 999 EMPLOYEES	42	6	-	-	-	12	-	7	1	-	-	-	-	1	4	1	4	-	3	1	-	2
1000 TO 2499 EMPLOYEES	7	1	-	1	-	-	-	-	-	-	-	-	-	-	2	-	1	-	2	-	-	-
2500 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
BAKER COUNTY	38	3	-	-	-	23	-	-	2	-	1	-	-	4	-	-	3	-	1	-	1	-
1 TO 19 EMPLOYEES	30	3	-	-	-	18	-	-	2	-	-	-	-	3	-	-	2	-	1	-	1	-
20 TO 99 EMPLOYEES	6	-	-	-	-	4	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
BENTON COUNTY	142	9	-	-	-	78	1	2	8	2	1	2	2	6	-	12	12	3	1	1	-	2
1 TO 19 EMPLOYEES	102	6	-	-	-	55	1	-	7	2	-	2	2	4	-	8	9	2	1	1	-	2
20 TO 99 EMPLOYEES	33	3	-	-	-	19	-	1	-	-	1	-	-	2	-	4	2	1	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	-	-	4	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-
CLACKAMAS COUNTY	429	13	-	3	9	120	14	5	32	5	-	11	-	21	9	49	70	13	22	9	16	8
1 TO 19 EMPLOYEES	331	9	-	2	7	96	10	-	28	4	-	9	-	16	6	40	52	9	19	7	13	4
20 TO 99 EMPLOYEES	74	4	-	-	-	19	3	2	4	1	-	2	-	4	3	6	14	2	2	2	3	3
100 TO 249 EMPLOYEES	15	-	-	1	2	3	1	-	-	-	-	-	-	1	-	2	2	1	1	-	-	1
250 EMPLOYEES AND OVER	9	-	-	-	-	2	-	3	-	-	-	-	-	-	-	1	2	1	-	-	-	-
CLATSOP COUNTY	91	19	-	-	-	44	1	-	6	-	1	-	-	2	1	2	4	-	7	-	2	2
1 TO 19 EMPLOYEES	70	9	-	-	-	39	1	-	5	-	1	-	-	2	1	2	2	-	6	-	2	-
20 TO 99 EMPLOYEES	14	6	-	-	-	2	-	-	1	-	-	-	-	-	-	-	2	-	1	-	-	2
100 TO 249 EMPLOYEES	4	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLUMBIA COUNTY	92	2	-	-	1	60	-	4	5	1	-	-	1	2	-	-	8	2	2	-	4	-
1 TO 19 EMPLOYEES	71	1	-	-	1	49	-	-	5	-	-	-	-	2	-	-	7	1	2	-	3	-
20 TO 99 EMPLOYEES	11	1	-	-	-	5	-	-	-	1	-	-	1	-	-	-	1	1	-	-	1	-
100 TO 249 EMPLOYEES	6	-	-	-	-	4	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COOS COUNTY	191	15	-	-	3	125	1	1	14	1	1	2	-	7	-	2	9	-	3	1	5	1
1 TO 19 EMPLOYEES	149	8	-	-	3	96	1	-	13	-	1	2	-	7	-	2	9	-	1	1	5	-
20 TO 99 EMPLOYEES	27	6	-	-	-	16	-	-	1	1	-	-	-	-	-	-	-	-	2	-	-	1
100 TO 249 EMPLOYEES	8	1	-	-	-	6	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CROOK COUNTY	37	2	-	-	-	32	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	25	2	-	-	-	20	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CURRY COUNTY	64	6	-	-	-	43	1	-	3	-	-	-	-	2	-	2	1	-	4	-	2	-
1 TO 19 EMPLOYEES	53	4	-	-	-	34	1	-	3	-	-	-	-	2	-	2	1	-	4	-	2	-
20 TO 99 EMPLOYEES	8	2	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DESCHUTES COUNTY	125	9	-	-	2	56	11	-	14	-	-	2	1	5	-	5	8	-	4	2	6	-
1 TO 19 EMPLOYEES	98	7	-	-	1	41	8	-	14	-	-	2	1	4	-	3	7	-	3	2	5	-
20 TO 99 EMPLOYEES	20	2	-	-	-	10	3	-	-	-	-	-	-	1	-	2	1	-	1	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOUGLAS COUNTY	297	14	-	-	1	216	1	1	15	-	-	-	-	11	1	5	22	2	2	-	5	1
1 TO 19 EMPLOYEES	228	11	-	-	1	163	1	-	13	-	-	-	-	8	-	3	18	2	2	-	5	1
20 TO 99 EMPLOYEES	43	3	-	-	-	31	-	-	-	-	-	-	-	3	-	2	4	-	-	-	-	-
100 TO 249 EMPLOYEES	15	-	-	-	-	13	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	11	-	-	-	-	9	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
GILLIAM COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufacturès; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
GRANT COUNTY	40	1	-	-	-	31	-	-	2	-	-	-	-	1	-	1	3	-	-	-	-	1
1 TO 19 EMPLOYEES	33	1	-	-	-	24	-	-	2	-	-	-	-	1	-	1	3	-	-	-	-	1
20 TO 99 EMPLOYEES	5	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARNEY COUNTY	16	-	-	-	-	15	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	14	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HOOD RIVER COUNTY	43	3	-	-	2	26	-	-	3	-	-	-	-	3	-	1	2	-	1	-	1	1
1 TO 19 EMPLOYEES	31	1	-	-	1	20	-	-	2	-	-	-	-	2	-	1	2	-	1	-	-	1
20 TO 99 EMPLOYEES	6	1	-	-	-	3	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	1	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
JACKSON COUNTY	271	18	-	-	3	140	4	-	20	5	-	2	1	12	-	17	19	6	7	5	9	3
1 TO 19 EMPLOYEES	205	11	-	-	3	102	2	-	17	3	-	2	1	12	-	13	16	4	5	4	8	2
20 TO 99 EMPLOYEES	43	6	-	-	-	20	2	-	2	2	-	-	-	-	-	3	2	2	2	-	1	1
100 TO 249 EMPLOYEES	16	1	-	-	-	11	-	-	1	-	-	-	-	-	-	1	1	-	-	1	-	-
250 EMPLOYEES AND OVER	7	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JEFFERSON COUNTY	23	2	-	-	1	13	-	-	-	-	-	-	-	-	-	-	4	-	1	-	2	-
1 TO 19 EMPLOYEES	18	1	-	-	1	11	-	-	-	-	-	-	-	-	-	-	3	-	-	-	2	-
20 TO 99 EMPLOYEES	4	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JOSEPHINE COUNTY	128	5	-	1	3	73	1	-	7	-	-	2	4	5	1	5	6	5	7	-	3	-
1 TO 19 EMPLOYEES	97	5	-	1	2	49	1	-	6	-	-	1	4	4	1	4	6	4	6	-	3	-
20 TO 99 EMPLOYEES	19	-	-	-	1	14	-	-	1	-	-	1	-	1	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	10	-	-	-	-	9	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
KLAMATH COUNTY	108	8	-	-	-	66	-	-	5	-	1	1	-	3	1	2	11	1	3	-	1	5
1 TO 19 EMPLOYEES	67	7	-	-	-	36	-	-	3	-	1	-	-	1	1	2	10	1	3	-	-	2
20 TO 99 EMPLOYEES	29	1	-	-	-	18	-	-	2	-	-	1	-	2	-	-	1	-	-	-	1	3
100 TO 249 EMPLOYEES	8	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAKE COUNTY	26	1	-	-	-	22	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1
1 TO 19 EMPLOYEES	20	1	-	-	-	16	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1
20 TO 99 EMPLOYEES	6	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LANE COUNTY	610	30	-	3	7	300	10	1	58	13	2	11	2	18	5	40	53	9	15	7	21	5
1 TO 19 EMPLOYEES	433	17	-	3	7	201	9	-	48	7	1	9	2	13	2	26	41	7	11	7	20	2
20 TO 99 EMPLOYEES	120	8	-	-	-	61	1	-	9	5	-	2	-	4	3	11	9	2	3	-	1	1
100 TO 249 EMPLOYEES	39	4	-	-	-	25	-	-	-	-	1	-	-	1	-	2	3	-	1	-	-	2
250 EMPLOYEES AND OVER	18	1	-	-	-	13	-	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-
LINCOLN COUNTY	84	7	-	-	2	52	-	2	3	2	-	-	-	5	-	1	2	-	4	-	4	-
1 TO 19 EMPLOYEES	67	3	-	-	2	41	-	1	2	2	-	-	-	5	-	1	2	-	4	-	4	-
20 TO 99 EMPLOYEES	14	4	-	-	-	9	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LINN COUNTY	245	15	-	1	4	137	3	6	15	4	1	4	2	7	6	12	17	2	1	-	4	4
1 TO 19 EMPLOYEES	167	9	-	-	4	86	2	2	14	3	1	4	2	4	2	11	14	1	1	-	4	3
20 TO 99 EMPLOYEES	44	2	-	1	-	33	1	-	-	1	-	-	-	1	1	1	2	-	-	-	-	1
100 TO 249 EMPLOYEES	26	3	-	-	-	16	-	1	1	-	-	-	-	2	1	-	1	1	-	-	-	-
250 EMPLOYEES AND OVER	8	1	-	-	-	2	-	3	-	-	-	-	-	-	2	-	-	-	-	-	-	-
MALHEUR COUNTY	32	9	-	-	-	3	-	-	4	-	-	-	-	6	-	3	7	-	-	-	-	-
1 TO 19 EMPLOYEES	27	6	-	-	-	2	-	-	3	-	-	-	-	6	-	3	7	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARION COUNTY	330	43	-	2	7	84	7	4	31	4	4	10	-	19	4	33	37	4	13	2	16	6
1 TO 19 EMPLOYEES	236	24	-	-	5	59	6	1	28	2	2	9	-	13	3	20	31	1	8	2	16	6
20 TO 99 EMPLOYEES	65	9	-	2	2	16	1	1	1	2	2	1	-	5	1	10	5	2	5	-	-	-
100 TO 249 EMPLOYEES	18	3	-	-	-	7	-	1	1	-	-	-	-	1	-	3	1	1	-	-	-	-
250 EMPLOYEES AND OVER	11	7	-	-	-	2	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
MORROW COUNTY	7	3	-	-	-	2	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MULTNOMAH COUNTY	1372	101	-	12	57	91	50	23	238	58	15	36	8	46	29	167	181	53	76	24	63	44
1 TO 19 EMPLOYEES	950	45	-	5	41	66	34	12	202	36	6	24	5	35	15	106	127	41	52	23	55	20
20 TO 99 EMPLOYEES	325	41	-	6	13	19	13	10	33	21	9	9	3	7	6	50	43	6	15	1	7	13
100 TO 249 EMPLOYEES	57	12	-	-	2	3	2	-	2	1	-	3	-	3	3	6	6	4	2	-	1	7
250 EMPLOYEES AND OVER	40	3	-	1	1	3	1	1	1	-	-	-	-	1	5	5	5	2	7	-	-	4
POLK COUNTY	89	5	-	-	2	50	4	1	1	1	1	-	1	3	2	6	8	2	-	-	-	2
1 TO 19 EMPLOYEES	63	2	-	-	2	34	4	1	1	1	1	-	1	2	1	6	5	1	-	-	-	1
20 TO 99 EMPLOYEES	18	1	-	-	-	11	-	-	-	-	-	-	-	1	1	-	2	1	-	-	-	1
100 TO 249 EMPLOYEES	5	1	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
SHERMAN COUNTY	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
TILLAMOOK COUNTY	63	8	-	-	-	48	1	-	3	-	-	-	-	1	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	50	6	-	-	-	37	1	-	3	-	-	-	-	1	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	8	1	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	1	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UMATILLA COUNTY	87	14	-	1	-	29	1	1	9	-	-	2	1	8	-	4	4	3	6	-	1	3
1 TO 19 EMPLOYEES	62	5	-	-	-	23	-	-	8	-	-	1	1	5	-	4	3	3	5	-	1	3
20 TO 99 EMPLOYEES	14	5	-	-	-	3	1	-	1	-	-	1	-	3	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	9	3	-	1	-	2	-	1	-	-	-	-	-	-	-	-	1	-	1	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNION COUNTY	59	1	-	-	-	42	-	-	2	2	-	-	-	2	-	1	4	-	2	-	3	-
1 TO 19 EMPLOYEES	50	1	-	-	-	34	-	-	2	2	-	-	-	2	-	1	4	-	1	-	3	-
20 TO 99 EMPLOYEES	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WALLOWA COUNTY	26	-	-	-	-	23	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	23	-	-	-	-	20	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WASCO COUNTY	21	2	-	-	-	11	-	-	4	-	-	-	-	1	1	-	1	-	-	-	-	1
1 TO 19 EMPLOYEES	14	1	-	-	-	7	-	-	3	-	-	-	-	1	-	-	1	-	-	-	-	1
20 TO 99 EMPLOYEES	5	1	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WASHINGTON COUNTY	381	26	-	-	9	67	10	3	28	10	1	16	2	15	10	31	46	36	17	28	15	11
1 TO 19 EMPLOYEES	246	14	-	-	9	41	8	1	20	6	1	8	1	9	6	20	33	23	11	15	14	6
20 TO 99 EMPLOYEES	93	4	-	-	-	19	1	-	3	4	-	8	1	6	3	8	10	10	4	9	-	3
100 TO 249 EMPLOYEES	37	8	-	-	-	7	1	2	5	-	-	-	-	-	1	2	3	3	1	1	1	2
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	3	-	-
WHEELER COUNTY	7	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YAMHILL COUNTY	139	18	-	-	3	55	1	1	6	2	-	2	1	9	2	4	14	8	10	2	1	-
1 TO 19 EMPLOYEES	94	9	-	-	2	38	1	-	5	2	-	1	-	9	1	4	11	3	6	1	1	-
20 TO 99 EMPLOYEES	35	8	-	-	1	13	-	-	1	-	-	1	1	-	-	-	2	4	4	-	-	-
100 TO 249 EMPLOYEES	5	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	2	-	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

Pennsylvania

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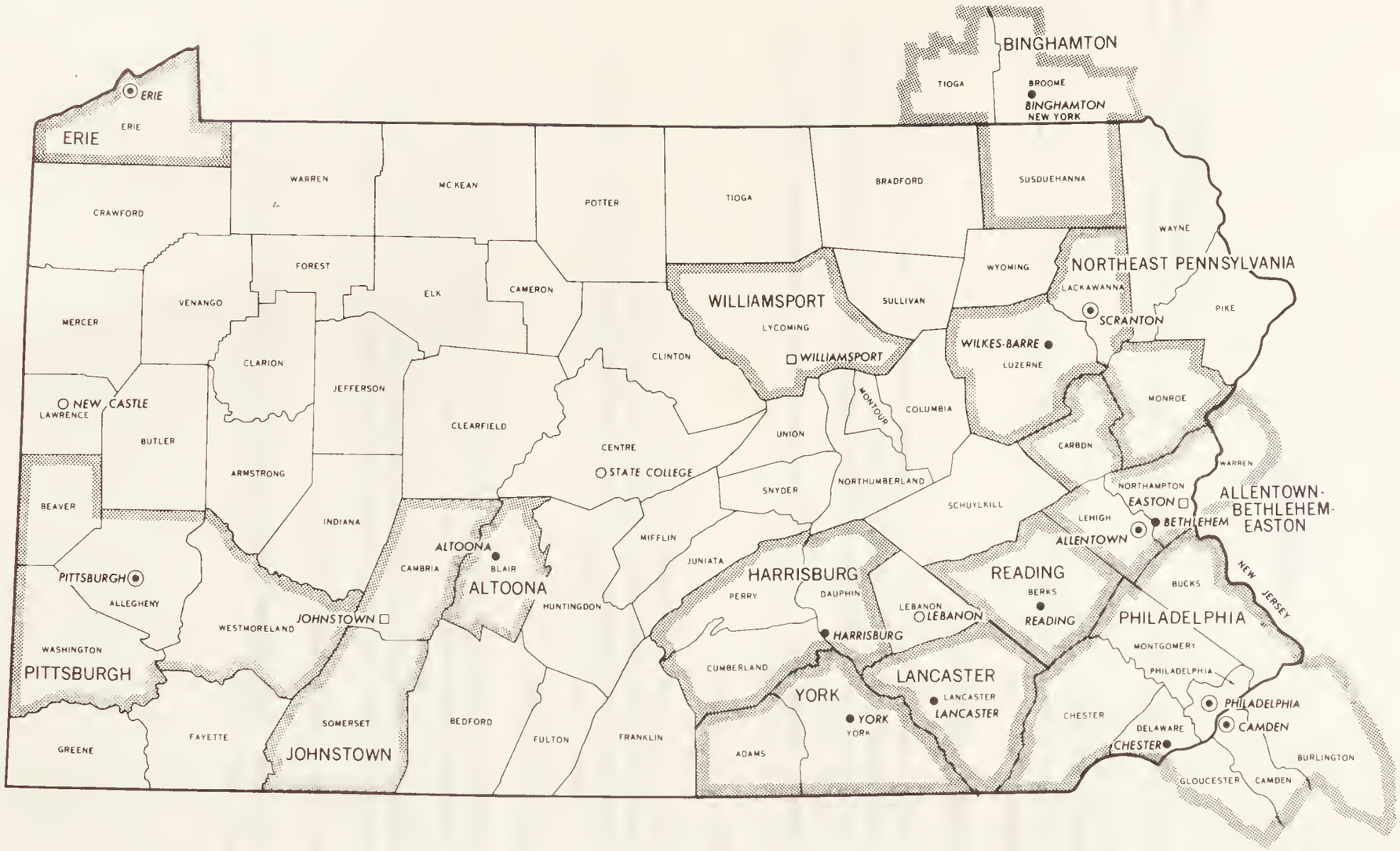
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LEGEND

- ◉ Places of 100,000 or more inhabitants
- ● Places of 50,000 to 100,000 inhabitants
- □ Central cities of SMSA's with fewer than 50,000 inhabitants
- ○ Places of 25,000 to 50,000 inhabitants outside SMSA's

Standard Metropolitan Statistical Areas (SMSA's)

SCALE
0 10 20 30 40 50 MILES

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMMARY OF FINDINGS

In 1977, 1,329.2 thousand persons were employed in Pennsylvania's manufacturing establishments. This figure represented a decrease of 9 percent from the 1972 figure of 1,417.5 thousand workers.

The total value added by manufacture for the State amounted to $36,017 million in 1977, an increase of approximately 53 percent from the 1972 figure of $23,519 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were primary metal industries; apparel and other textile products; machinery, except electrical; and electric and electronic equipment. They accounted for approximately 41 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 42 percent of the State's employment.

The most important counties in the State ranked by employment were Philadelphia, Allegheny, Montgomery, and Lancaster. They accounted for approximately 35 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 37 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Pennsylvania:						
1977	1,329.2	18,042.7	1,241.9	16,308.8	87.3	1,733.9
1972	1,417.5	12,794.1	1,330.4	11,627.2	87.1	1,166.9
1967	1,549.5	10,349.7	1,468.9	9,506.0	80.6	843.7
1963	1,392.9	8,008.6	1,324.7	7,372.7	68.2	636.0
STANDARD CONSOLIDATED STATISTICAL AREA						
Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md.:						
1977	550.5	8,072.4	487.8	6,814.0	62.7	1,258.4
1972	597.8	5,900.8	543.5	5,127.6	54.3	773.2
STANDARD METROPOLITAN STATISTICAL AREAS						
Allentown-Bethlehem-Easton, Pa.-N.J.:						
1977	106.8	1,430.8	97.1	1,217.2	9.7	213.6
1972	110.4	980.6	102.2	853.0	8.2	127.6
Altoona:						
1977	12.1	134.6	(D)	(D)	(D)	(D)
1972	15.6	106.7	(D)	(D)	(D)	(D)
1967	14.6	78.0	(D)	(D)	(D)	(D)
1963	11.7	53.6	(D)	(D)	(D)	(D)
Binghamton, N.Y.-Pa.:						
1977	39.6	578.1	38.9	569.2	.7	8.9
1972	36.4	377.4	35.6	371.0	.8	6.4
1967	46.1	347.5	45.1	340.8	1.0	6.7
1963	41.6	259.0	(D)	(D)	(D)	(D)
Erie:						
1977	42.0	600.7	41.6	592.7	.4	8.0
1972	42.5	408.2	(D)	(D)	(D)	(D)
1967	42.3	298.4	42.1	296.8	.2	1.6
1963	36.4	220.8	35.7	215.8	.7	5.1
Harrisburg:						
1977	40.4	515.8	36.1	442.3	4.3	73.5
1972	40.1	324.8	36.7	290.2	3.4	34.6
1967	37.9	233.1	35.3	207.5	2.6	25.6
1963	33.5	165.1	31.4	148.3	2.0	16.8
Johnstown:						
1977	20.8	290.9	(D)	(D)	(D)	(D)
1972	23.1	204.4	(D)	(D)	(D)	(D)
1967	25.1	161.4	(D)	(D)	(D)	(D)
1963	23.0	128.1	(D)	(D)	(D)	(D)
Lancaster:						
1977	56.4	693.6	54.0	646.2	2.4	47.4
1972	53.0	446.4	50.6	416.1	2.3	30.0
1967	54.1	333.1	52.0	311.2	2.1	21.9
1963	47.9	255.1	(D)	(D)	(D)	(D)
Northeast Pennsylvania:						
1977	70.9	685.0	68.5	657.1	2.4	27.9
1972	82.8	540.1	81.7	531.0	1.1	9.1
1967	83.4	390.5	82.0	382.2	1.4	8.3
1963	72.8	280.0	(D)	(D)	(D)	(D)
Philadelphia, Pa.-N.J.:						
1977	451.8	6,364.7	418.7	5,764.9	33.1	599.8
1972	495.7	4,774.6	465.9	4,377.6	29.8	397.0
1967	573.8	4,125.2	549.4	3,875.5	24.4	249.7
1963	535.8	3,310.6	512.8	3,108.7	23.0	201.9
Pittsburgh:						
1977	239.7	4,037.5	206.8	3,292.7	32.9	744.8
1972	262.8	2,836.6	222.8	2,261.7	40.0	574.9
1967	299.6	2,383.0	258.2	1,924.4	41.4	458.6
1963	272.2	1,925.6	237.2	1,577.8	35.0	347.8
Reading:						
1977	50.1	623.6	48.4	597.3	1.7	26.3
1972	51.8	429.5	50.2	410.3	1.6	19.2
1967	56.4	334.3	56.0	329.9	.4	4.4
1963	50.7	255.1	50.1	250.1	.6	5.0
Williamsport:						
1977	17.5	202.7	17.2	197.8	.3	4.9
1972	18.7	138.1	(D)	(D)	(D)	(D)
York:						
1977	59.0	716.0	57.7	697.7	1.3	18.3
1972	56.6	464.2	55.8	454.6	.8	9.6
1967	57.0	324.4	56.7	322.1	.3	2.3
1963	48.7	224.1	48.4	221.0	.3	3.1

(D) Withheld to avoid disclosing operations of individual companies.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
PENNSYLVANIA															
1977 CENSUS.	18 735	7 704	1 329.2	18 042.7	934.1	1 781.6	10 948.8	36 016.9	44 393.0	79 844.8	2 297.4	6.78	100	100	19 596.9
1976 ASM....	(NA)	(NA)	1 310.2	16 491.7	915.7	1 749.6	9 873.8	32 221.6	40 002.7	71 918.5	2 000.5	6.99	99	96	18 753.0
1975 ASM....	(NA)	(NA)	1 330.9	15 248.5	914.7	1 742.6	9 080.9	29 432.2	36 733.7	65 847.0	1 995.6	7.27	100	94	18 302.2
1974 ASM....	(NA)	(NA)	1 477.7	15 564.3	1 052.3	2 033.6	9 701.5	31 497.9	37 222.9	67 552.9	2 045.0	7.45	111	102	19 844.8
1973 ASM....	(NA)	(NA)	1 465.2	14 164.1	1 058.8	2 049.4	8 864.7	26 818.3	29 254.2	55 585.6	1 569.2	7.36	110	102	19 897.9
1972 CENSUS.	18 398	8 070	1 417.5	12 794.1	1 015.0	1 953.9	7 885.7	23 518.5	25 160.6	48 344.8	1 479.3	7.45	107	98	19 028.7
1971 ASM....	(NA)	(NA)	1 426.4	11 824.6	1 013.9	1 941.5	7 191.4	21 964.0	22 739.8	44 703.6	1 487.9	7.77	107	94	18 363.1
1970 ASM....	(NA)	(NA)	1 514.0	11 824.3	1 084.6	2 098.5	7 266.9	21 448.2	22 342.8	43 525.6	1 572.8	7.88	114	99	19 217.2
1969 ASM....	(NA)	(NA)	1 573.0	11 771.1	1 138.2	2 232.3	7 319.2	22 136.5	22 189.9	43 525.6	1 547.3	7.85	118	103	20 035.5
1968 ASM....	(NA)	(NA)	1 553.8	10 965.8	1 130.6	2 216.6	6 860.8	20 318.3	20 810.5	40 998.9	1 592.0	7.96	117	100	19 527.6
1967 CENSUS.	18 771	8 369	1 549.5	10 349.7	1 136.2	2 211.3	6 488.7	19 276.8	19 574.0	38 590.5	1 633.4	8.02	117	99	19 323.2
1966 ASM....	(NA)	(NA)	1 552.4	10 050.8	1 153.1	2 288.0	6 443.0	18 752.3	19 849.9	38 163.7	1 423.5	8.16	117	98	19 024.5
1965 ASM....	(NA)	(NA)	1 491.5	9 228.5	1 108.8	2 191.4	5 944.9	17 115.9	18 258.1	35 076.6	1 074.9	8.28	112	92	18 010.2
1964 ASM....	(NA)	(NA)	1 433.7	8 599.9	1 057.6	2 089.5	5 495.5	15 406.2	16 834.8	31 994.9	829.9	8.30	108	89	17 268.5
1963 CENSUS.	19 459	7 981	1 392.9	8 008.6	1 028.0	2 002.1	5 110.7	14 043.6	(NA)	(NA)	777.7	8.21	105	87	16 958.4
PHILADELPHIA-WILMINGTON-TRENTON, PA.-DEL.-N.J.-MD.															
1977 CENSUS.	8 964	3 306	550.5	8 072.4	343.8	667.7	4 192.6	15 796.6	22 402.4	38 008.3	921.5	2.81	100	100	19 596.9
1972 CENSUS.	8 833	3 560	597.8	5 900.8	387.0	755.0	3 211.0	11 008.5	12 384.1	23 294.5	689.3	3.13	108	98	19 028.7
ALLENTOWN-BETHLEHEM-EASTON, PA.-N.J., SMSA															
1977 CENSUS.	1 183	621	106.8	1 430.8	75.8	140.9	853.3	2 731.8	3 105.1	5 828.2	172.8	.55	100	100	19 596.9
1976 ASM....	(NA)	(NA)	107.6	1 346.9	74.5	142.0	775.8	2 483.2	3 194.6	5 673.4	191.5	.57	101	96	18 753.0
1975 ASM....	(NA)	(NA)	111.2	1 386.9	76.5	143.7	739.5	2 193.8	3 008.3	5 193.0	224.1	.61	104	94	18 302.2
1974 ASM....	(NA)	(NA)	116.8	1 240.2	82.9	159.3	745.1	2 369.3	2 993.8	5 227.1	215.4	.59	109	102	19 844.8
1973 ASM....	(NA)	(NA)	113.5	1 083.5	81.6	153.5	671.1	2 185.3	2 169.6	4 255.9	176.1	.57	106	102	19 897.9
1972 CENSUS.	1 116	645	110.4	980.6	80.6	149.0	592.6	1 805.6	1 768.5	3 553.8	164.5	.58	103	98	19 028.7
ERIE SMSA															
1977 CENSUS.	510	209	42.0	600.7	29.0	55.8	356.5	1 254.8	1 093.8	2 323.7	76.3	.21	100	100	19 596.9
1976 ASM....	(NA)	(NA)	46.1	569.9	33.3	63.0	345.4	1 200.2	1 018.1	2 238.8	79.6	.25	110	96	18 753.0
1975 ASM....	(NA)	(NA)	48.0	546.2	33.5	64.6	330.0	1 092.7	982.6	2 066.4	60.4	.26	114	94	18 302.2
1974 ASM....	(NA)	(NA)	51.6	566.7	36.4	72.4	359.2	1 105.0	966.7	2 009.7	77.6	.26	123	102	19 844.8
1973 ASM....	(NA)	(NA)	45.5	462.9	31.2	62.9	281.0	857.7	745.4	1 580.4	52.6	.23	108	102	19 897.9
1972 CENSUS.	480	203	42.5	408.2	29.0	57.5	244.8	764.8	647.7	1 401.5	48.5	.22	101	98	19 028.7
1971 ASM....	(NA)	(NA)	41.8	377.9	28.6	56.4	226.3	692.8	576.7	1 256.8	61.6	.23	99	94	18 363.1
1970 ASM....	(NA)	(NA)	43.0	357.5	30.1	57.6	214.9	639.2	517.9	1 145.8	60.6	.22	102	99	19 217.2
1969 ASM....	(NA)	(NA)	42.2	331.7	29.8	60.5	205.5	622.5	481.0	1 085.7	44.5	.21	100	103	20 035.5
1968 ASM....	(NA)	(NA)	43.0	319.7	30.8	62.3	200.7	598.9	492.9	1 082.5	37.9	.22	102	100	19 527.6
1967 CENSUS.	461	205	42.3	298.4	30.3	61.4	191.6	575.1	456.4	1 033.4	33.5	.22	101	99	19 323.2
1966 ASM....	(NA)	(NA)	44.5	304.4	32.8	68.2	200.9	594.4	470.0	1 049.7	33.0	.23	106	98	19 024.5
1965 ASM....	(NA)	(NA)	41.2	272.5	30.4	62.8	179.2	523.8	430.9	944.6	29.9	.23	98	92	18 010.2
1964 ASM....	(NA)	(NA)	38.2	247.3	27.8	58.1	150.8	473.2	387.9	840.3	19.9	.22	91	89	17 268.5
1963 CENSUS.	(NA)	(NA)	36.4	220.8	26.3	52.5	142.4	414.1	(NA)	(NA)	18.2	.21	87	87	16 958.4
HARRISBURG SMSA															
1977 CENSUS.	495	206	40.4	515.8	27.5	52.1	302.8	1 164.2	1 414.5	2 563.5	66.7	.21	100	100	19 596.9
1976 ASM....	(NA)	(NA)	38.8	453.2	25.9	49.6	263.3	1 014.6	1 194.1	2 215.1	43.2	.21	96	96	18 753.0
1975 ASM....	(NA)	(NA)	38.8	409.5	26.3	49.8	243.1	859.5	1 112.2	1 970.2	50.1	.21	96	94	18 302.2
1974 ASM....	(NA)	(NA)	42.8	415.7	29.2	56.1	246.7	853.1	1 119.1	1 917.6	69.4	.22	106	102	19 844.8
1973 ASM....	(NA)	(NA)	44.7	397.3	30.8	61.0	240.9	783.2	870.3	1 634.5	56.1	.22	111	102	19 897.9
1972 CENSUS.	93	44	40.1	324.8	28.3	55.4	203.4	713.6	779.9	1 485.3	78.3	.21	99	98	19 028.7
1967 CENSUS.	431	208	37.9	233.1	28.5	56.5	153.1	487.3	583.5	1 064.2	27.4	.20	94	99	19 323.2
1963 CENSUS.	46 319	6	33.5	165.1	25.5	49.1	109.2	353.0	(NA)	(NA)	13.1	.20	83	87	16 958.4
LANCASTER SMSA															
1977 CENSUS.	770	340	56.4	693.6	41.0	80.0	425.4	1 492.5	1 852.1	3 304.8	117.7	.29	100	100	19 596.9
1976 ASM....	(NA)	(NA)	54.0	607.2	39.1	75.8	376.3	1 331.3	1 671.0	2 986.1	95.0	.29	96	96	18 753.0
1975 ASM....	(NA)	(NA)	51.5	534.2	36.2	68.8	324.7	1 140.0	1 461.1	2 608.7	50.1	.28	91	94	18 302.2
1974 ASM....	(NA)	(NA)	55.9	542.8	40.2	78.3	337.6	1 136.9	1 477.6	2 556.7	69.3	.28	99	102	19 844.8
1973 ASM....	(NA)	(NA)	56.1	513.3	41.1	81.1	320.5	1 084.7	1 179.1	2 230.4	73.5	.28	99	102	19 897.9
1972 CENSUS.	719	334	53.0	446.4	38.9	77.1	280.3	953.0	1 014.7	1 939.4	85.9	.28	94	98	19 028.7
1971 ASM....	(NA)	(NA)	49.4	391.8	35.3	69.4	244.0	791.8	807.6	1 606.5	62.5	.27	88	94	18 363.1
1970 ASM....	(NA)	(NA)	53.8	396.2	38.5	76.6	242.5	773.2	781.3	1 536.2	58.2	.28	95	99	19 217.2
1969 ASM....	(NA)	(NA)	55.8	387.3	42.3	83.8	251.1	818.3	759.2	1 565.5	65.7	.28	99	103	20 035.5
1968 ASM....	(NA)	(NA)	55.0	355.9	41.4	80.9	225.2	732.1	692.3	1 420.3	49.7	.28	98	100	19 527.6
1967 CENSUS.	660	302	54.1	333.1	41.3	81.6	214.2	721.6	650.7	1 371.3	46.6	.28	96	99	19 323.2
1966 ASM....	(NA)	(NA)	55.2	332.3	43.0	86.9	217.6	735.8	6 624.4	1 343.3	44.4	.29	98	98	19 024.5
1965 ASM....	(NA)	(NA)	51.6	293.6	39.6	79.4	189.9	643.4	537.4	1 175.1	43.3	.29	91	92	18 010.2
1964 ASM....	(NA)	(NA)	47.6	269.1	36.0	74.4	173.0	596.1	494.5	1 087.2	40.5	.28	84	89	17 268.5
1963 CENSUS.	673	295	47.9	255.1	35.9	71.8	160.2	532.6	(NA)	(NA)	26.3	.28	85	87	16 958.4

See footnotes at end of table.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years – Con.

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
NORTHEAST PENNSYLVANIA SMSA															
1977 CENSUS.	1 266	664	70.9	685.0	56.4	101.4	482.3	1 327.8	1 293.9	2 583.0	93.5	.36	100	100	19 596.9
1976 ASM....	(NA)	(NA)	66.3	612.2	52.8	96.7	437.0	1 201.5	1 176.0	2 369.9	78.0	.35	94	96	18 753.0
1975 ASM....	(NA)	(NA)	66.3	560.4	52.3	96.3	397.8	1 146.4	1 076.5	2 229.5	73.1	.36	94	94	18 302.2
1974 ASM....	(NA)	(NA)	74.7	575.8	59.9	111.2	416.3	1 194.5	1 064.0	2 207.2	66.6	.38	105	102	19 844.8
1973 ASM....	(NA)	(NA)	83.1	588.0	67.3	125.8	430.0	1 117.7	926.2	2 024.2	57.4	.42	117	102	19 897.9
1972 ASM....	1 305	728	82.8	540.1	68.4	124.2	399.7	1 024.2	867.5	1 892.4	55.7	.45	117	94	18 363.1
1971 ASM....	0	0	81.4	486.5	66.4	121.2	354.4	925.0	758.0	1 679.0	35.8	.44	115	94	18 363.1
1970 ASM....	(NA)	(NA)	84.1	465.6	69.2	127.1	340.6	860.4	722.3	1 556.9	41.1	.44	119	99	19 217.2
1969 ASM....	(NA)	(NA)	85.5	449.4	71.3	132.2	334.3	819.9	757.3	1 575.3	39.3	.43	121	103	20 035.5
1968 ASM....	(NA)	(NA)	84.1	418.3	70.2	130.4	313.5	821.6	743.3	1 559.0	42.1	.43	119	100	19 527.6
1967 CENSUS.	1 260	714	83.4	390.5	69.7	129.5	294.4	756.3	663.9	1 412.3	37.5	.43	118	99	19 323.2
1963 CENSUS.	1 260	665	72.8	280.0	62.1	114.0	216.0	501.2	(NA)	(NA)	19.1	.43	103	87	16 958.4
PHILADELPHIA, PA.-N.J., SMSA															
1977 CENSUS.	7 946	2 909	451.8	6 364.7	293.5	569.0	3 510.6	13 429.6	18 223.2	31 507.5	723.4	2.31	100	100	19 596.9
1976 ASM....	(NA)	(NA)	437.2	5 780.4	283.5	546.3	3 117.0	11 646.4	15 866.9	27 467.4	566.0	2.33	97	96	18 753.0
1975 ASM....	(NA)	(NA)	449.2	5 425.6	286.8	549.5	2 897.0	10 353.2	14 633.5	24 957.1	606.0	2.45	99	94	18 302.2
1974 ASM....	(NA)	(NA)	502.1	5 495.7	330.8	642.0	3 103.4	10 998.0	14 561.2	25 275.5	758.8	2.53	111	102	19 844.8
1973 ASM....	(NA)	(NA)	503.5	5 112.9	342.7	667.2	2 974.2	10 055.7	11 392.0	21 276.9	620.1	2.53	111	102	19 897.9
1972 CENSUS.	7 889	3 161	495.7	4 774.6	331.4	644.3	2 714.6	9 189.9	9 904.2	19 049.5	570.0	2.61	110	98	19 028.7
1971 ASM....	(NA)	(NA)	500.2	4 505.1	330.7	648.0	2 518.0	8 693.5	9 396.6	18 156.1	535.4	2.72	111	94	18 363.1
1970 ASM....	(NA)	(NA)	538.2	4 554.9	358.5	705.5	2 569.1	8 575.5	9 340.8	17 898.1	550.4	2.80	119	99	19 217.2
1969 ASM....	(NA)	(NA)	578.3	4 675.5	387.2	771.4	2 648.9	9 047.4	9 110.9	18 046.9	563.7	2.89	128	103	20 035.5
1968 ASM....	(NA)	(NA)	573.3	4 367.3	388.5	772.9	2 501.6	8 365.7	8 657.2	17 017.3	501.3	2.94	127	100	19 527.6
1967 CENSUS.	7 938	3 317	573.8	4 125.2	397.5	782.5	2 405.6	7 958.8	8 242.1	16 016.5	624.9	2.97	127	99	19 323.2
1966 ASM....	(NA)	(NA)	571.0	3 973.8	396.1	793.0	2 333.9	7 541.4	8 113.1	15 431.0	523.5	3.00	126	98	19 024.5
1963 CENSUS.	8 287	3 212	535.8	3 310.6	374.8	743.5	1 998.1	6 031.6	(NA)	(NA)	297.5	3.16	119	87	16 958.4
PITTSBURGH SMSA															
1977 CENSUS.	2 662	957	239.7	4 037.5	153.9	294.0	2 311.5	6 478.4	9 144.9	15 480.5	558.0	1.22	100	100	19 596.9
1976 ASM....	(NA)	(NA)	240.6	3 709.8	151.0	286.2	2 065.7	6 047.1	8 477.5	14 456.7	502.8	1.28	100	96	18 753.0
1975 ASM....	(NA)	(NA)	255.8	3 436.6	155.9	293.9	1 923.5	6 186.7	7 755.9	13 628.9	457.5	1.40	107	94	18 302.2
1974 ASM....	(NA)	(NA)	277.7	3 578.9	182.8	355.5	2 120.6	6 903.1	8 379.5	15 007.0	375.8	1.40	116	102	19 844.8
1973 ASM....	(NA)	(NA)	269.9	3 171.4	175.5	345.5	1 803.5	5 070.9	6 279.4	11 375.6	246.3	1.36	113	102	19 897.9
1972 CENSUS.	2 530	981	262.8	2 836.6	166.9	323.7	1 577.5	4 163.9	5 400.5	9 432.7	254.7	1.38	110	98	19 028.7
1971 ASM....	(NA)	(NA)	267.9	2 598.5	169.1	324.9	1 422.5	4 039.0	4 846.3	8 892.0	281.1	1.46	112	94	18 363.1
1970 ASM....	(NA)	(NA)	289.6	2 623.7	186.3	360.5	1 471.1	4 038.1	4 828.7	8 800.3	329.4	1.51	121	99	19 217.2
1969 ASM....	(NA)	(NA)	299.0	2 611.9	196.3	381.2	1 488.6	4 368.8	4 930.1	9 211.9	331.6	1.49	125	103	20 035.5
1968 ASM....	(NA)	(NA)	298.8	2 481.3	196.6	382.9	1 330.9	3 980.9	4 695.9	8 691.0	453.0	1.53	125	100	19 527.6
1967 CENSUS.	2 464	1 023	299.6	2 383.0	197.1	380.6	1 350.2	3 838.1	4 441.7	8 204.5	385.5	1.55	125	99	19 323.2
1966 ASM....	(NA)	(NA)	298.7	2 328.7	203.9	401.3	1 385.7	3 881.5	4 712.2	8 551.1	317.8	1.57	125	98	19 024.5
1965 ASM....	(NA)	(NA)	291.8	2 198.9	199.6	391.7	1 324.5	3 654.9	4 514.1	8 127.7	250.7	1.62	122	92	18 010.2
1964 ASM....	(NA)	(NA)	285.2	2 807.4	192.9	381.9	1 243.9	3 283.8	4 295.8	7 514.3	192.3	1.65	119	89	17 268.5
1963 CENSUS.	2 578	947	272.2	1 925.6	181.1	351.8	1 119.0	2 879.2	(NA)	(NA)	199.9	1.61	114	87	16 958.4
READING SMSA															
1977 CENSUS.	667	309	50.1	623.6	37.7	73.7	416.5	1 378.8	1 542.4	2 894.9	85.1	.26	100	100	19 596.9
1976 ASM....	(NA)	(NA)	49.6	551.0	36.5	70.7	356.8	1 155.3	1 203.7	2 337.4	66.2	.26	99	96	18 753.0
1975 ASM....	(NA)	(NA)	48.1	491.6	35.1	66.5	311.0	954.4	1 047.2	2 021.3	76.4	.26	96	94	18 302.2
1974 ASM....	(NA)	(NA)	52.4	494.9	39.3	76.3	332.1	983.2	1 119.1	2 075.6	64.3	.26	105	102	19 844.8
1973 ASM....	(NA)	(NA)	53.3	471.6	40.9	77.9	318.6	978.1	981.1	1 925.5	52.5	.27	106	102	19 897.9
1972 CENSUS.	631	317	51.8	429.5	39.7	75.8	290.2	865.4	832.2	1 682.8	48.3	.27	103	98	19 028.7
1971 ASM....	(NA)	(NA)	52.8	402.4	40.1	75.9	267.2	768.2	743.0	1 507.1	49.0	.29	105	94	18 363.1
1970 ASM....	(NA)	(NA)	54.6	387.5	41.6	79.8	256.0	725.2	707.9	1 427.9	61.9	.28	109	99	19 217.2
1969 ASM....	(NA)	(NA)	58.1	393.7	45.5	91.0	270.2	746.7	738.9	1 466.9	44.0	.29	116	103	20 035.5
1968 ASM....	(NA)	(NA)	57.0	362.8	45.2	90.1	251.4	679.9	657.2	1 323.9	36.1	.29	114	100	19 527.6
1967 CENSUS.	666	336	56.4	334.3	44.6	88.0	230.2	597.5	617.9	1 215.0	50.8	.29	113	99	19 323.2
1966 ASM....	(NA)	(NA)	55.0	321.4	43.9	87.6	224.6	584.0	660.0	1 230.2	49.0	.29	110	98	19 024.5
1965 ASM....	(NA)	(NA)	54.8	306.5	43.8	89.2	214.5	565.0	594.6	1 149.6	31.9	.30	109	92	18 010.2
1964 ASM....	(NA)	(NA)	52.7	282.7	42.1	84.6	194.7	482.6	526.3	1 007.1	25.8	.31	105	89	17 268.5
1963 CENSUS.	677	311	50.7	255.1	39.9	77.9	175.4	429.5	(NA)	(NA)	24.6	.30	101	87	16 958.4
YORK SMSA															
1977 CENSUS.	734	342	59.0	716.0	45.3	88.2	471.5	1 517.5	1 579.0	3 041.0	86.7	.30	100	100	19 596.9
1976 ASM....	(NA)	(NA)	57.2	633.1	43.9	86.5	416.5	1 215.0	1 467.7	2 642.4	89.1	.31	97	96	18 753.0
1975 ASM....	(NA)	(NA)	55.3	567.1	42.3	83.7	373.9	1 105.8	1 257.0	2 379.0	90.0	.30	94	94	18 302.2
1974 ASM....	(NA)	(NA)	58.4	555.2	45.8	92.4	378.5	1 109.4	1 241.8	2 289.7	79.3	.29	99	102	19 844.8
1973 ASM....	(NA)	(NA)	58.8	510.0	45.8	92.7	345.5	1 062.4	964.0	1 988.0	53.2	.30	100	102	19 897.9
1972 CENSUS.	700	363	56.6	464.2	44.4	89.4	316.8	865.7	846.2	1 732.7	45.1	.30	96	98	19 028.7
1971 ASM....	(NA)	(NA)	54.9	408.8	42.5	84.3	265.0	837.8	776.9	1 584.8	40.9	.30	93	94	18 363.1
1970 ASM....	(NA)	(NA)	58.8	402.4	45.7	91.7	267.3	806.4	759.7	1 536.6	48.2	.31	100	99	19 217.2
1969 ASM....	(NA)	(NA)	60.7	397.9	48.0	98.4	277.6	801.5	742.3	1 538.1	61.3	.30	103	103	20 035.5
1968 ASM....	(NA)	(NA)	58.1	352.4	46.5	95.4	247.7	711.4	683.2	1 393.8	56.0	.30	98	100	19 527.6
1967 CENSUS.	710	368	57.0	324.4	46.1	93.9	229.7	662.5	651.6	1 303.4	57.7	.29	97	99	19 323.2
1966 ASM....	(NA)	(NA)	55.0	302.1	44.8	92.5	216.8	632.7	579.0	1 189.7	57.8	.29	93	98	19 024.5
1965 ASM....	(NA)	(NA)	53.4	277.7	43.3	89.1	197.9	557.1	517.4	1 053.7	49.5	.30	90	92	18 010.2
1964 ASM....	(NA)	(NA)	50.7	251.4	41.1	84.9	178.2	494.1	475.3	957.2	19.7	.29	86	89	17 268.5
1963 CENSUS.	724	365	48.7	224.1	39.9	80.6	162.7	438.2	(NA)	(NA)	19.7	.29	82	87	16 958.4

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B.)

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
PENNSYLVANIA									
1977 CENSUS	13 574	70	1 907	6.15	56	78	27 097	50	20.22
1976 ASM	12 587	70	1 911	5.64	56	79	24 593	51	18.42
1975 ASM	11 457	69	1 905	5.21	56	79	22 115	52	16.89
1974 ASM	10 533	71	1 933	4.77	55	78	21 315	49	15.49
1973 ASM	9 667	72	1 936	4.33	53	78	18 304	53	13.09
1972 CENSUS	9 026	72	1 925	4.04	52	79	16 592	54	12.04
1971 ASM	8 290	71	1 915	3.70	51	77	15 398	54	11.31
1970 ASM	7 810	0	1 935	3.46	51	78	14 167	55	10.22
1969 ASM	7 483	72	1 961	3.28	51	78	14 073	53	9.92
1968 ASM	7 057	73	1 961	3.10	51	78	13 077	54	9.17
1967 CENSUS	6 679	73	1 946	2.93	51	78	12 441	54	8.72
1966 ASM	6 474	74	1 984	2.82	52	78	12 080	54	8.20
1965 ASM	6 187	74	1 976	2.71	52	78	11 476	54	7.81
1964 ASM	5 998	74	1 976	2.63	53	79	10 746	56	7.37
1963 CENSUS	5 750	74	1 948	2.55	(NA)	(NA)	10 082	57	7.01
PHILADELPHIA-WILMINGTON-TRENTON, PA.-DEL.-N.J.-MD.									
1977 CENSUS	14 664	62	1 942	6.28	59	80	28 695	51	23.66
1972 CENSUS	9 911	65	1 958	4.22	51	77	18 415	54	14.52
ALLENTOWN-BETHLEHEM-EASTON, PA.-N.J., SMSA									
1977 CENSUS	13 400	71	1 858	6.05	53	78	25 584	52	19.38
1976 ASM	12 518	69	1 906	5.46	56	80	23 078	54	17.49
1975 ASM	11 573	69	1 878	5.15	58	83	19 728	59	15.27
1974 ASM	10 618	71	1 922	4.68	57	81	20 285	52	14.87
1973 ASM	9 546	72	1 881	4.37	51	76	19 254	50	14.24
1972 CENSUS	8 882	73	1 849	3.98	50	77	16 355	54	12.12
1971 ASM	8 240	72	1 873	3.69	47	77	14 410	57	10.65
1970 ASM	7 668	73	1 883	3.39	49	78	13 932	55	10.12
1969 ASM	1 488	74	1 891	3.28	51	57	12 441	12	8.87
1968 ASM	6 958	73	1 892	3.13	49	79	11 991	58	8.66
1967 CENSUS	6 468	74	1 883	2.91	50	81	10 655	61	7.69
1966 ASM	6 193	75	1 912	2.74	51	81	10 346	60	7.23
1965 ASM	5 943	75	1 930	2.64	52	82	9 732	61	6.72
1964 ASM	5 777	74	1 892	2.56	50	81	9 465	61	6.72
1963 CENSUS	5 527	74	1 888	2.45	(NA)	(NA)	8 893	62	6.32
ERIE SMSA									
1977 CENSUS	14 294	69	1 928	6.38	47	73	29 860	48	22.47
1976 ASM	12 362	72	1 892	5.48	45	71	26 035	47	19.05
1975 ASM	11 379	70	1 928	5.11	48	74	22 765	50	16.91
1974 ASM	10 983	71	1 989	4.96	48	76	21 415	51	15.26
1973 ASM	10 174	69	2 016	4.47	47	76	18 851	54	13.64
1972 CENSUS	9 605	68	1 983	4.26	46	75	17 995	53	13.30
1971 ASM	9 041	68	1 972	4.01	46	76	16 574	55	12.28
1970 ASM	8 314	70	1 914	3.73	45	76	14 865	56	11.10
1969 ASM	7 860	71	2 030	3.40	44	75	14 751	53	10.29
1968 ASM	7 435	72	2 023	3.22	46	75	13 928	53	9.61
1967 CENSUS	7 054	72	2 026	3.12	44	73	13 596	52	9.37
1966 ASM	6 840	74	2 079	2.95	45	74	13 357	51	8.72
1965 ASM	6 614	74	2 066	2.85	46	74	12 714	52	8.34
1964 ASM	6 474	73	2 090	2.60	46	76	12 387	52	8.14
1963 CENSUS	6 066	72	1 996	2.71	(NA)	(NA)	11 376	53	7.89
HARRISBURG SMSA									
1977 CENSUS	12 768	68	1 894	5.81	55	75	28 821	44	22.36
1976 ASM	11 680	67	1 915	5.31	54	74	26 149	45	20.46
1975 ASM	10 554	68	1 894	4.88	56	77	22 152	48	17.26
1974 ASM	9 713	68	1 921	4.40	58	80	19 932	49	15.21
1973 ASM	8 888	69	1 981	3.95	53	78	17 521	51	12.84
1972 CENSUS	8 100	71	1 958	3.67	53	74	17 796	46	12.88
1967 CENSUS	6 150	75	1 982	2.71	55	77	12 858	48	8.62
1963 CENSUS	4 928	76	1 925	2.22	(NA)	(NA)	10 537	47	7.19
LANCASTER SMSA									
1977 CENSUS	12 296	73	1 951	5.32	56	77	26 460	46	18.67
1976 ASM	11 244	72	1 939	4.96	56	76	24 654	46	17.56
1975 ASM	10 373	70	1 901	4.72	56	76	22 136	47	16.57
1974 ASM	9 710	72	1 948	4.31	58	79	20 338	48	14.52
1973 ASM	9 150	73	1 973	3.95	53	76	19 335	47	13.37
1972 CENSUS	8 423	73	1 982	3.64	52	75	17 981	47	12.36
1971 ASM	7 931	71	1 966	3.52	50	75	16 028	49	11.41
1970 ASM	7 364	72	1 990	3.17	51	77	14 372	51	10.09
1969 ASM	6 941	76	1 981	3.00	48	73	14 665	47	9.76
1968 ASM	6 471	75	1 954	2.78	49	74	13 311	49	9.05
1967 CENSUS	6 157	76	1 976	2.62	47	72	13 338	46	8.84
1966 ASM	6 020	78	2 021	2.50	46	71	13 330	45	8.47
1965 ASM	5 690	77	2 005	2.39	46	71	12 469	46	8.10
1964 ASM	5 653	76	2 067	2.33	45	70	12 523	45	8.01
1963 CENSUS	5 326	75	2 000	2.23	(NA)	(NA)	11 119	48	7.42

See footnotes at end of table.

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years – Con.

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
NORTHEAST PENNSYLVANIA SMSA									
1977 CENSUS	9 663	80	1 798	4.76	50	77	18 733	52	13.10
1976 ASM	9 234	80	1 831	4.52	50	75	18 122	51	12.43
1975 ASM	8 452	79	1 841	4.13	48	73	17 291	49	11.90
1974 ASM	7 708	80	1 856	3.74	48	74	15 991	48	10.74
1973 ASM	7 076	81	1 869	3.42	46	75	13 450	53	8.88
1971 ASM	6 523	83	1 816	3.22	46	74	12 370	53	8.25
1971 ASM	5 977	82	1 825	2.92	45	74	11 364	53	7.63
1970 ASM	5 536	82	1 837	2.68	46	76	10 231	54	6.77
1969 ASM	5 256	83	1 854	2.53	48	77	9 589	55	6.20
1968 ASM	4 974	83	1 858	2.40	48	75	9 769	51	6.30
1967 CENSUS	4 682	84	1 858	2.27	47	75	9 068	52	5.84
1963 CENSUS	3 846	85	1 836	1.89	(NA)	(NA)	6 885	56	4.40
PHILADELPHIA, PA.-N.J., SMSA									
1977 CENSUS	14 089	65	1 939	6.17	58	78	29 728	47	23.60
1976 ASM	13 221	65	1 927	5.71	58	79	26 639	50	21.32
1975 ASM	12 078	64	1 916	5.27	59	80	23 048	52	18.84
1974 ASM	10 945	66	1 941	4.83	58	79	21 904	50	17.13
1973 ASM	10 155	68	1 947	4.46	54	78	19 972	51	15.07
1972 CENSUS	9 632	67	1 944	4.21	52	77	18 539	52	14.26
1971 ASM	9 007	66	1 959	3.89	52	77	17 380	52	13.42
1970 ASM	8 463	67	1 968	3.64	52	78	15 934	53	12.16
1969 ASM	8 085	67	1 992	3.43	50	76	15 645	52	11.73
1968 ASM	7 618	68	1 989	3.24	51	77	14 592	52	10.82
1967 CENSUS	7 189	69	1 969	3.07	51	77	13 870	52	10.17
1966 ASM	6 959	69	2 002	2.94	53	78	13 207	53	9.51
1963 CENSUS	6 179	70	1 984	2.69	(NA)	(NA)	11 257	55	8.11
PITTSBURGH SMSA									
1977 CENSUS	16 845	64	1 911	7.86	59	85	27 029	62	22.04
1976 ASM	15 419	63	1 895	7.22	59	84	25 133	61	21.13
1975 ASM	13 435	61	1 885	6.54	57	82	24 186	56	21.05
1974 ASM	12 888	66	1 945	5.97	56	80	24 858	52	19.42
1973 ASM	11 750	65	1 969	5.22	55	83	18 788	63	14.68
1972 CENSUS	10 794	64	1 939	4.87	57	87	15 844	68	12.86
1971 ASM	9 700	63	1 921	4.38	55	84	15 077	64	12.43
1970 ASM	9 060	64	1 935	4.08	55	85	13 944	65	11.20
1969 ASM	8 735	66	1 942	3.91	54	82	14 611	60	11.46
1968 ASM	8 304	66	1 948	3.48	54	83	13 323	62	10.40
1967 CENSUS	7 954	66	1 931	3.55	54	83	12 811	62	10.08
1966 ASM	7 796	68	1 968	3.45	55	82	12 995	60	9.67
1965 ASM	7 536	68	1 962	3.38	56	83	12 525	60	9.33
1964 ASM	9 844	68	1 980	3.26	57	95	11 514	85	8.60
1963 CENSUS	7 074	67	1 943	3.18	(NA)	(NA)	10 578	67	8.18
READING SMSA									
1977 CENSUS	12 451	75	1 956	5.65	53	75	27 531	45	18.72
1976 ASM	11 109	74	1 937	5.05	51	75	23 292	48	16.34
1975 ASM	10 220	73	1 895	4.68	52	76	19 842	52	14.35
1974 ASM	9 445	75	1 941	4.35	54	78	18 763	50	12.89
1973 ASM	8 848	77	1 905	4.09	51	75	18 351	48	12.56
1972 CENSUS	8 292	77	1 909	3.83	49	75	16 707	50	11.42
1971 ASM	7 621	76	1 893	3.52	49	76	14 549	52	10.12
1970 ASM	7 097	76	1 918	3.21	50	77	13 282	53	9.09
1969 ASM	6 776	78	2 000	2.97	50	77	12 852	53	8.21
1968 ASM	6 365	79	1 993	2.79	50	77	11 928	53	7.55
1967 CENSUS	5 927	79	1 973	2.62	51	78	10 594	56	6.79
1966 ASM	5 844	80	1 995	2.56	54	80	10 618	55	6.67
1965 ASM	5 593	80	2 037	2.40	52	78	10 310	54	6.33
1964 ASM	5 364	80	2 010	2.30	52	80	9 157	59	5.70
1963 CENSUS	5 032	79	1 952	2.25	(NA)	(NA)	8 471	59	5.51
YORK SMSA									
1977 CENSUS	12 127	77	1 947	5.35	52	75	25 703	47	17.21
1976 ASM	11 068	77	1 970	4.82	56	80	21 241	52	14.05
1975 ASM	10 255	76	1 979	4.47	53	77	19 996	51	13.21
1974 ASM	9 507	78	2 017	4.10	54	78	18 997	50	12.01
1973 ASM	8 673	78	2 024	3.73	48	74	18 068	48	11.46
1972 CENSUS	8 201	78	2 014	3.54	49	76	15 295	54	9.68
1971 ASM	7 446	77	1 984	3.14	49	75	15 260	49	9.94
1970 ASM	6 844	78	2 007	2.91	49	76	13 714	50	8.79
1969 ASM	6 555	79	2 050	2.82	48	74	13 204	50	8.15
1968 ASM	6 065	80	2 052	2.60	49	74	12 244	50	7.46
1967 CENSUS	5 691	81	2 037	2.45	50	75	11 623	49	7.06
1966 ASM	5 493	81	2 065	2.34	49	74	11 504	48	6.84
1965 ASM	5 200	81	2 058	2.22	49	75	10 433	50	6.25
1964 ASM	4 959	81	2 066	2.10	50	76	9 746	51	5.82
1963 CENSUS	4 602	82	2 020	2.02	(NA)	(NA)	8 998	51	5.44

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	18 735	18 398
With 1 to 19 employees	do	11 031	10 328
With 20 to 99 employees	do	5 094	5 352
With 100 employees or more	do	2 610	2 718
All employees, average for year[1]	1,000	1 329.2	1 417.5
Payroll for year, all employees[1]	mil. dollars	18 042.7	12 794.1
Production workers:			
Average for year	1,000	934.1	1 015.0
March	do	918.2	998.6
May	do	935.8	1 010.1
August	do	944.2	1 020.9
November	do	936.6	1 030.3
Hours	millions	1 781.6	1 953.9
January to March	do	434.0	481.9
April to June	do	456.7	495.0
July to September	do	442.7	476.5
October to December	do	448.2	500.5
Wages	mil. dollars	10 948.8	7 885.7
Cost of materials, etc.[2]	do	44 393.0	25 160.6
Materials, parts, containers, etc., consumed	do	37 910.3	21 830.2
Resales	do	2 439.6	1 387.3
Fuels consumed	do	1 681.0	566.0
Purchased electric energy	do	963.1	464.9
Contract work	do	1 399.0	912.2
Value of shipments, including resales[2]	do	79 844.8	48 344.8
Value of resales	do	3 002.2	1 779.1
Value added by manufacture	do	36 016.9	23 518.5
Manufacturers' inventories:			
Beginning of year	do	12 136.5	7 280.0
Finished products	do	3 522.6	2 433.1
Work in process	do	4 133.0	2 497.9
Materials, supplies, fuel, etc.	do	4 480.9	2 349.0
End of year	do	12 857.3	7 616.1
Finished products	do	3 783.8	2 475.0
Work in process	do	4 433.7	2 692.0
Materials, supplies, fuel, etc.	do	4 639.8	2 449.0
Capital expenditures for plant and equipment	do	2 423.0	1 576.8
New capital expenditures	do	2 297.4	1 479.3
New buildings and other structures	do	427.0	343.7
New machinery and equipment	do	1 870.4	1 135.6
Used capital expenditures	do	125.5	97.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	27,576.3	1
New capital expenditures	2,383.1	1
Used capital expenditures	137.6	8
Retirements	844.9	2
End of year	29,252.1	1
Buildings and other structures:		
Beginning of year	6,663.2	1
New capital expenditures	432.9	1
Used capital expenditures	(40.7)	17
Retirements	191.3	3
End of year	6,945.6	1
Machinery and equipment:		
Beginning of year	20,913.4	1
New capital expenditures	1,950.2	1
Automobiles, trucks, etc., for highway use	60.8	(NA)
Computers and peripheral data processing equip.	40.4	(NA)
All other	1,524.8	(NA)
New machinery and equipment, n.s.k.	324.1	(NA)
Used capital expenditures	96.9	6
Retirements	654.1	2
End of year	22,306.3	1

Item	Amount (million dollars)	Standard error of estimate (percent)
Rental payments:		
Total	395.4	3
Buildings and other structures	156.4	4
Machinery and equipment	238.6	4
Depreciation charges during 1977:		
Total	1,490.8	1
Buildings and other structures	267.8	2
Machinery and equipment	1,222.9	1
Supplemental labor costs:		
Total	3,546.9	1
Legal costs	1,288.3	1
Voluntary costs	2,258.5	1
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	(126.3)	26
Response coverage ratio (percent)	61	(X)
Machinery	464.3	13
Response coverage ratio (percent)	61	(X)
Cost of purchased communication services	(181.2)	42
Response coverage ratio (percent)	64	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
Pennsylvania	-	**18 735**	**7 704**	**1 329.2**	**18 042.7**	**934.1**	**1 781.6**	**10 948.8**	**36 016.9**	**44 393.0**	**79 844.8**	**2 297.4**	**1 417.5**	**23 518.5**
STANDARD CONSOLIDATED STATISTICAL AREAS														
Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md.	-	8 964	3 306	550.5	8 072.4	343.8	667.7	4 192.6	15 796.6	22 402.4	38 008.3	921.5	597.8	11 008.5
Portion in New Jersey	-	2 103	730	112.7	1 619.3	73.8	142.9	903.0	3 159.9	4 732.5	7 864.4	222.0	115.7	2 167.2
Portion in Pennsylvania	-	6 390	2 391	384.5	5 457.7	247.5	480.5	2 977.7	11 537.3	14 774.4	26 189.7	587.8	428.8	7 985.9
Portion in Delaware	-	419	160	50.7	966.4	20.7	40.6	294.8	1 035.3	2 798.4	3 792.3	107.4	49.6	803.1
Portion in Maryland	-	52	25	2.6	29.0	1.9	3.7	17.0	64.0	97.1	161.8	4.2	3.7	52.3
STANDARD METROPOLITAN STATISTICAL AREAS														
Allentown-Bethlehem-Easton, Pa.-N.J.	-	1 183	621	106.8	1 430.8	75.8	140.9	853.3	2 731.8	3 105.1	5 828.2	172.8	110.4	1 805.6
Portion in New Jersey	-	154	76	12.6	172.9	8.6	17.1	102.5	422.9	523.6	974.2	39.4	14.5	349.2
Portion in Pennsylvania	-	1 029	545	94.2	1 257.9	67.2	123.8	750.8	2 308.9	2 581.5	4 853.9	133.4	95.9	1 456.4
Altoona	-	147	63	12.1	134.6	9.6	17.9	96.3	340.8	315.9	648.0	23.5	15.6	234.9
Binghamton, N.Y.-Pa.	-	389	146	39.6	578.1	22.3	42.9	236.3	1 081.2	1 244.8	2 273.4	(D)	36.4	673.5
Portion in New York	-	326	125	37.3	558.7	20.4	39.3	221.8	1 046.7	1 216.5	2 211.3	71.9	34.3	651.9
Portion in Pennsylvania	E1	63	21	2.2	19.3	1.9	3.6	14.4	34.6	28.2	62.1	(D)	2.1	21.6
Erie	-	510	209	42.0	600.7	29.0	55.8	356.5	1 254.8	1 093.8	2 323.7	76.3	42.5	764.8
Harrisburg	-	495	206	40.4	515.8	27.5	52.1	302.8	1 164.2	1 414.5	2 563.5	66.7	40.1	713.6
Johnstown	-	293	101	20.8	290.9	16.7	29.0	214.2	463.5	593.1	1 092.3	27.3	23.1	336.9
Lancaster	-	770	340	56.4	693.6	41.0	80.0	425.4	1 492.5	1 852.1	3 304.8	117.7	53.0	953.0
Northeast Pennsylvania	-	1 266	664	70.9	685.0	56.4	101.4	482.3	1 327.8	1 293.9	2 583.0	93.5	82.8	1 024.2
Philadelphia, Pa.-N.J.	-	7 946	2 909	451.8	6 364.7	293.5	569.0	3 510.6	13 429.6	18 223.2	31 507.5	723.4	495.7	9 189.9
Portion in New Jersey	-	1 556	518	67.2	907.0	46.0	88.5	532.9	1 892.3	3 448.8	5 317.8	135.6	69.3	1 255.8
Portion in Pennsylvania	-	6 390	2 391	384.5	5 457.7	247.5	480.5	2 977.7	11 537.3	14 774.4	26 189.7	587.8	426.3	7 934.1
Pittsburgh	-	2 662	957	239.7	4 037.5	153.9	294.0	2 311.5	6 478.4	9 144.9	15 480.5	558.0	262.8	4 163.9
Reading	-	667	309	50.1	623.6	37.7	73.7	416.5	1 378.8	1 542.4	2 894.9	85.1	51.8	865.4
Williamsport	-	202	95	17.5	202.7	13.2	25.2	136.4	515.4	452.8	958.0	(D)	18.7	306.6
York	-	734	342	59.0	716.0	45.3	88.2	471.5	1 517.5	1 579.0	3 041.0	86.7	56.6	865.7
COUNTIES														
Adams	-	129	57	6.9	60.1	5.6	10.8	42.6	152.6	200.2	352.1	7.2	6.7	92.7
Allegheny	-	1 736	586	150.3	2 629.1	87.0	165.4	1 307.1	3 957.1	5 822.9	9 676.7	226.1	169.8	2 402.3
Armstrong	-	79	34	4.9	63.1	3.9	7.6	45.2	133.0	116.9	247.8	8.1	4.2	87.3
Beaver	-	186	77	35.7	628.8	27.9	53.9	476.9	987.2	1 502.3	2 468.2	138.4	36.5	734.4
Bedford	-	50	18	2.0	21.5	1.5	2.9	14.8	53.5	95.1	144.4	3.4	2.5	37.3
Berks	-	667	309	50.1	623.6	37.7	73.7	416.5	1 378.8	1 542.4	2 894.9	85.1	51.8	865.4
Blair	-	147	63	12.1	134.6	9.6	17.9	96.3	340.8	315.9	648.0	23.5	15.6	234.9
Bradford	-	79	31	6.0	73.5	4.5	9.3	47.3	239.7	203.8	441.3	13.6	5.5	109.5
Bucks	-	1 046	388	49.2	696.2	35.3	69.6	440.3	1 394.8	1 738.0	3 120.6	73.9	46.3	860.4
Butler	-	200	85	14.1	222.8	10.7	20.8	155.7	472.0	685.0	1 150.1	49.8	13.2	241.8
Cambria	-	169	61	16.6	257.1	13.0	22.3	187.7	386.2	499.1	922.5	23.7	19.2	296.8
Cameron	-	23	7	1.2	14.6	1.0	2.0	11.5	27.2	14.0	41.1	1.9	1.5	23.2
Carbon	-	113	53	7.1	61.3	6.2	10.8	48.6	131.0	138.5	266.9	16.1	6.9	88.0
Centre	-	109	41	6.9	73.5	5.4	10.6	52.9	170.6	157.9	325.8	6.8	6.7	127.1
Chester	-	511	215	35.2	491.9	23.1	45.0	275.8	1 067.5	1 103.0	2 159.2	68.9	34.3	661.9
Clarion	E1	55	17	2.6	31.8	2.2	4.3	25.3	79.0	60.4	139.5	5.7	2.7	50.3
Clearfield	-	134	51	7.2	69.3	5.8	11.2	51.1	123.2	232.4	356.2	7.9	5.7	82.2
Clinton	-	50	22	6.1	72.0	5.0	9.8	53.8	111.2	177.4	279.2	12.0	6.2	75.3
Columbia	-	128	62	8.5	82.7	6.9	13.2	59.7	168.0	204.3	368.0	8.1	11.7	149.7
Crawford	-	188	69	10.6	135.5	7.9	15.5	92.3	288.2	304.5	586.1	14.0	11.0	191.4
Cumberland	-	187	82	14.6	166.9	10.6	20.9	110.4	454.8	589.3	1 038.4	23.8	15.1	254.6
Dauphin	-	270	110	24.8	342.2	16.1	29.7	187.0	697.0	818.9	1 506.3	42.4	24.2	452.5
Delaware	-	559	187	44.8	720.3	25.0	48.3	343.6	1 806.0	2 864.3	4 680.1	96.4	40.2	946.4
Elk	-	87	32	8.0	100.6	6.2	12.0	70.0	191.2	159.4	343.2	13.8	8.4	143.7
Erie	-	510	209	42.0	600.7	29.0	55.8	356.5	1 254.8	1 093.8	2 323.7	76.3	42.5	764.8
Fayette	-	143	45	7.8	87.5	6.3	11.1	64.8	182.0	181.8	362.3	11.6	8.0	117.8
Forest	-	6	3	0.5	5.8	0.5	0.9	5.0	14.9	12.0	26.6	0.5	0.6	11.1
Franklin	-	156	69	14.6	155.9	11.3	20.5	107.7	302.7	293.8	602.8	12.4	13.0	200.1
Fulton	-	19	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	6.0
Greene	E2	33	9	0.7	5.3	0.5	0.8	3.8	9.1	18.1	26.7	0.3	(D)	(D)
Huntingdon	-	53	15	3.2	32.1	2.7	4.8	25.4	79.9	55.0	136.7	5.4	3.9	51.4
Indiana	-	84	28	6.3	75.1	4.4	8.7	46.8	167.6	160.9	332.2	9.9	5.3	87.5
Jefferson	-	99	39	6.3	66.0	4.9	9.1	43.8	114.3	92.3	206.8	12.3	5.0	58.9
Juniata	-	52	14	1.9	15.4	1.7	3.0	11.3	30.2	44.8	74.6	1.0	1.7	17.3
Lackawanna	-	499	258	26.1	257.4	20.8	37.6	181.4	452.0	504.5	944.4	44.1	30.3	352.2
Lancaster	-	770	340	56.4	693.6	41.0	80.0	425.4	1 492.5	1 852.1	3 304.8	117.7	53.0	953.0
Lawrence	-	169	68	9.7	130.5	7.3	14.0	90.0	285.6	300.0	583.3	23.7	10.8	172.4
Lebanon	-	195	106	14.2	166.3	11.2	20.8	117.1	423.3	482.2	884.7	22.5	13.8	245.5
Lehigh	-	489	245	47.8	699.6	30.2	58.1	352.5	1 241.2	1 626.0	2 851.1	52.1	47.1	666.6
Luzerne	-	670	358	40.5	379.3	32.4	57.8	269.0	773.1	715.6	1 458.7	44.1	47.3	599.4
Lycoming	-	202	95	17.5	202.7	13.2	25.2	136.4	515.4	452.8	958.0	(D)	18.7	306.6
McKean	-	94	39	7.0	83.0	5.4	10.6	56.8	159.1	247.1	403.2	11.4	7.3	111.7
Mercer	-	157	61	16.1	246.1	12.2	24.5	177.0	566.7	725.5	1 281.4	39.6	18.8	375.6
Mifflin	-	56	25	6.2	79.0	5.1	9.8	59.9	132.9	224.9	355.0	9.8	7.1	86.5
Monroe	-	97	48	4.3	48.3	3.2	6.0	31.8	102.7	73.8	179.9	5.3	5.2	72.7
Montgomery	-	1 458	554	97.8	1 444.9	57.7	112.5	706.8	3 141.3	2 710.8	5 799.1	148.3	105.1	2 159.1
Montour	-	17	10	2.3	31.2	1.8	3.7	23.1	147.5	81.7	231.0	5.1	2.8	53.2
Northampton	-	427	247	39.3	497.0	30.8	54.9	349.7	936.7	817.0	1 735.9	65.2	41.9	701.8
Northumberland	-	158	87	13.2	127.9	10.9	19.4	95.6	264.2	408.6	669.6	9.6	14.3	175.8
Perry	E1	38	14	1.0	6.7	0.9	1.5	5.4	12.5	6.4	18.7	0.5	0.8	6.5
Philadelphia	-	2 816	1 047	157.5	2 104.5	106.5	205.1	1 211.2	4 127.7	6 358.4	10 430.7	200.3	202.6	3 355.2
Pike	-	16	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972—Con.

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
COUNTIES—Con.														
Potter	–	44	12	0.9	7.9	0.8	1.5	6.1	18.4	12.8	31.0	2.0	0.8	8.1
Schuylkill	–	294	173	20.3	167.5	16.9	30.6	124.8	342.7	391.3	749.5	16.7	22.9	249.7
Snyder	E1	66	37	3.4	30.3	2.9	5.3	23.1	52.4	64.0	115.7	2.5	3.2	38.8
Somerset	E1	124	40	4.2	33.7	3.7	6.8	26.5	77.3	94.0	169.7	3.5	3.9	40.2
Sullivan	–	20	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	4.7
Susquehanna	E1	63	21	2.2	19.3	1.9	3.6	14.4	34.6	28.2	62.1	(D)	2.1	21.6
Tioga	–	48	13	2.3	25.3	1.9	3.7	19.2	61.5	86.4	146.4	2.3	2.5	48.0
Union	–	35	16	2.8	27.7	2.4	4.7	20.9	66.1	76.6	141.9	(D)	2.7	40.0
Venango	–	92	37	8.3	123.0	5.4	10.5	81.2	239.3	424.0	662.5	19.8	7.2	132.9
Warren	–	101	39	5.9	77.4	4.2	8.4	49.0	179.5	416.3	587.7	13.3	5.5	99.2
Washington	–	243	109	19.0	275.8	14.6	28.3	202.1	592.1	944.8	1 526.2	27.8	19.0	365.8
Wayne	–	71	20	2.4	20.1	2.1	3.7	14.9	51.9	73.4	123.1	3.7	2.3	41.6
Westmoreland	–	497	185	34.7	503.8	24.3	46.4	325.4	942.0	874.9	1 809.4	165.8	37.4	661.4
Wyoming	–	47	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
York	–	605	285	52.2	655.9	39.7	77.4	428.9	1 364.9	1 378.9	2 688.9	79.5	50.0	772.9
PLACES														
Abington twp	E2	44	9	0.5	6.9	0.3	0.5	2.6	9.9	7.7	17.5	0.4	(D)	(D)
Aliquippa	–	17	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Allentown	–	260	128	25.1	366.4	18.6	36.5	237.5	800.2	1 029.1	1 823.6	32.8	29.1	488.3
Altoona	–	58	27	6.1	62.2	4.7	8.7	43.1	165.8	130.8	293.5	8.9	7.7	107.8
Ambler	–	22	8	0.6	8.0	0.4	0.8	4.6	13.1	14.7	27.9	0.5	0.7	10.6
Ambridge	–	16	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.1	70.6
Archbald	–	16	9	1.9	24.1	1.7	3.1	20.0	32.8	43.2	73.5	(D)	2.0	21.8
Ashland	–	10	6	0.9	8.4	0.7	1.4	5.9	15.9	15.5	28.9	(D)	0.7	8.0
Aston twp	–	19	9	0.8	10.7	0.3	0.6	3.0	43.2	59.4	91.5	1.0	(D)	(D)
Athens	–	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Avoca	–	9	6	0.5	3.0	0.4	0.7	2.5	7.4	7.7	14.9	(D)	0.5	2.9
Baldwin	–	9	2	0.6	11.6	0.1	0.2	1.4	7.9	3.6	11.4	0.3	(D)	(D)
Bangor	–	37	20	1.8	16.8	1.5	2.7	13.2	41.9	48.9	89.1	1.0	1.7	32.0
Beaver Falls	–	26	9	6.4	114.0	4.9	9.8	86.0	121.9	268.9	377.4	(D)	6.1	103.2
Bellefonte	–	16	8	2.1	27.6	1.7	3.7	22.2	56.1	66.4	120.8	2.4	1.8	34.3
Bensalem	E1	172	62	5.5	79.5	3.2	6.3	33.3	136.7	161.0	297.1	5.8	3.6	68.7
Berwick	–	46	22	4.4	45.0	3.5	6.4	31.9	101.3	119.8	216.2	3.8	5.6	78.6
Bethel Park	E2	43	7	0.5	6.3	0.4	0.8	4.3	11.2	11.6	22.9	0.7	(NA)	(NA)
Bethlehem	–	97	56	23.0	390.2	13.6	24.3	197.1	538.8	492.0	1 017.4	(D)	23.1	377.6
Birdsboro	E1	19	7	1.1	13.1	0.9	1.6	8.4	24.9	37.1	62.5	1.7	1.0	13.1
Blairsville	–	23	6	1.2	16.2	1.0	2.1	12.1	46.9	56.1	101.9	(D)	0.8	17.7
Bloomsburg	–	35	17	2.1	20.1	1.7	3.7	14.3	35.5	51.2	87.0	1.1	4.0	40.3
Boyertown	–	44	18	3.2	34.2	2.6	4.9	26.4	62.5	55.9	118.5	2.4	3.4	45.5
Brackenridge	–	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Braddock	–	15	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	36.8
Bradford	–	33	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	69.8
Bridgeport	E1	35	11	0.7	8.0	0.6	1.1	5.6	14.3	10.7	25.1	0.7	1.8	27.8
Bridgeville	–	20	7	1.4	24.3	1.1	1.9	17.8	30.4	74.8	104.1	(D)	0.5	11.6
Bristol	–	41	18	2.3	29.2	1.7	3.3	18.6	108.3	119.5	226.8	3.1	3.4	79.6
Bristol twp	–	79	34	4.4	54.4	3.1	6.0	32.6	145.0	172.1	316.7	18.3	3.3	64.4
Brockway	–	7	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	14.1
Brookville	–	27	9	0.9	8.8	0.8	1.4	6.9	22.5	21.2	43.7	1.8	0.5	7.8
Brownsville	–	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Burnham	–	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Butler	–	51	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.3	121.2
Canonsburg	–	34	14	3.2	43.9	2.2	5.0	31.3	93.0	71.5	165.9	2.4	4.3	68.3
Carbondale	E2	31	24	1.8	15.8	1.4	2.4	10.9	32.1	40.9	73.0	(D)	1.5	22.1
Carlisle	–	40	20	6.7	77.9	5.1	10.4	57.0	181.9	144.3	325.7	7.5	6.3	93.3
Carnegie	E1	30	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	21.7
Catasauqua	–	12	7	0.6	7.1	0.5	0.9	5.3	13.7	12.1	25.5	0.3	1.5	20.2
Chambersburg	–	48	23	4.9	48.6	4.1	6.9	35.9	120.2	115.1	233.9	4.6	5.2	81.3
Charleroi	–	8	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cheltenham twp	E4	46	6	0.5	5.4	0.4	0.7	3.6	10.5	10.4	20.8	(D)	0.5	8.5
Chester	–	57	30	9.7	145.9	7.1	12.9	101.6	341.1	340.4	687.2	21.6	4.7	120.3
Cheswick	–	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Churchill	E0	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clairton	–	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clarion	–	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	27.5
Clearfield	–	28	13	1.9	19.4	1.6	3.0	14.9	36.0	21.2	56.6	1.8	1.6	14.9
Clifton Heights	–	25	8	1.1	10.6	0.9	1.7	7.1	21.0	13.8	34.2	0.6	1.2	13.8
Coatesville	–	36	14	4.8	90.7	2.9	5.7	50.4	165.2	138.3	305.0	(D)	(D)	(D)
Collegeville	E2	17	6	0.9	10.9	0.7	1.3	7.0	21.8	17.4	38.4	1.3	(NA)	(NA)
Columbia	E1	39	19	2.7	27.5	2.3	4.2	21.4	49.2	82.7	129.9	4.7	2.9	34.9
Connellsville	–	19	8	0.6	5.6	0.5	0.8	3.9	9.4	6.1	15.0	0.9	0.8	6.0
Conshohocken	–	44	19	2.9	38.7	2.0	3.9	24.6	112.5	191.5	294.4	4.0	3.8	101.0
Coraopolis	–	27	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	28.5
Corry	–	25	14	2.6	32.9	2.0	4.0	22.7	76.8	62.2	131.4	6.2	2.3	36.5
Curwensville	–	11	5	1.4	14.4	1.1	2.1	10.3	11.9	105.1	117.0	1.1	1.4	25.8
Dallastown	–	13	7	0.6	6.1	0.5	0.9	4.4	8.9	6.3	15.9	0.3	(NA)	(NA)
Danville	–	16	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	53.2
Derry	–	9	4	0.7	9.0	0.5	1.0	6.5	12.9	8.1	21.6	(D)	(D)	(D)
Derry twp	–	13	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dickson City	E1	24	11	0.8	5.4	0.7	1.0	4.1	7.7	4.9	12.6	(D)	0.7	4.9
Donora	–	13	6	0.5	5.6	0.4	0.7	3.7	19.3	24.9	36.6	1.1	0.5	6.4
Downingtown	–	31	12	3.6	49.7	2.7	5.5	33.8	98.8	152.1	250.5	4.9	3.3	58.4
Doylestown	E1	44	11	1.6	17.0	1.2	2.6	11.6	33.6	30.0	63.2	1.8	1.7	19.6

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972—Con.

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area		1977											1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
PLACES—Con.														
Dravosburg	–	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Du Bois	–	35	13	2.1	18.6	1.7	3.3	13.4	40.6	54.5	96.7	2.2	0.5	6.4
Dunmore	–	28	17	1.6	15.4	1.2	2.2	10.8	34.1	30.4	61.2	(D)	4.3	88.5
Duquesne	–	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Duryea	–	9	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	37.0
East Hempfield twp	–	37	19	2.3	28.7	1.6	3.2	17.0	62.8	156.1	217.3	5.3	0.7	15.9
Easton	–	57	21	2.6	25.7	1.7	2.9	12.7	45.8	43.4	88.0	5.7	5.9	85.0
East Pittsburgh	–	3	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
East Stroudsburg	–	25	16	1.9	24.2	1.4	2.6	16.1	65.8	40.7	106.1	2.5	1.9	37.1
Edgewood	–	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Elizabethtown	–	23	8	1.2	15.0	0.9	1.6	9.4	37.7	82.5	116.1	9.6	1.4	15.7
Ellwood City	–	24	12	1.6	23.7	1.2	2.3	15.2	61.8	61.9	126.6	7.6	(D)	(D)
Emmaus	–	25	13	1.7	16.1	1.1	2.0	8.7	41.1	35.3	76.2	2.8	2.0	26.0
Emporium	–	20	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ephrata	–	33	23	3.2	26.6	2.4	4.2	17.6	41.4	44.4	86.3	2.0	3.3	40.2
Erie	–	240	94	16.4	241.0	11.5	22.2	147.4	430.6	432.9	870.2	28.6	18.1	306.4
Exeter	–	13	8	0.9	7.5	0.8	1.8	6.1	10.0	27.1	37.4	(D)	1.3	11.2
Exeter twp	–	8	5	0.5	4.8	0.5	0.8	3.5	11.2	10.3	21.1	0.4	(NA)	(NA)
Falls twp	–	37	22	9.6	186.1	7.5	14.3	141.4	331.7	654.8	982.4	13.7	(D)	(D)
Farrell	–	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fleetwood	–	18	8	1.1	11.3	0.9	1.9	9.1	40.9	30.5	70.6	1.4	0.9	14.6
Folcroft	–	32	18	1.4	16.3	1.0	1.9	9.9	44.1	94.9	139.2	2.3	1.1	19.3
Ford City	–	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fountain Hill	E2	12	5	0.6	4.7	0.6	1.1	3.7	7.5	8.2	15.8	0.3	(D)	(D)
Franklin	–	35	12	4.7	69.5	2.8	5.5	44.1	154.3	155.5	306.5	7.9	3.9	72.3
Freeland	E1	11	7	0.5	3.7	0.4	0.7	2.9	5.9	3.4	9.5	0.4	0.6	4.8
Gettysburg	E1	38	12	0.9	7.8	0.7	1.3	5.2	19.0	36.6	55.4	0.6	1.3	14.7
Glassport	–	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Greencastle	–	23	11	0.9	8.8	0.7	1.4	5.6	16.3	25.6	42.3	2.9	1.1	10.2
Greensburg	–	68	21	1.5	19.4	1.1	2.1	12.2	38.1	27.5	65.5	2.1	1.9	30.9
Greenville	–	24	6	1.7	26.0	1.3	2.4	18.6	55.9	100.1	157.5	2.4	2.2	40.7
Grove City	–	23	6	1.7	23.3	1.3	2.9	17.8	64.3	46.5	111.8	(D)	1.9	19.9
Hamburg	–	35	22	2.3	24.9	1.9	3.7	18.7	57.7	90.6	147.6	3.1	2.1	37.8
Hanover twp	–	26	10	1.1	10.3	1.0	1.7	8.5	22.2	15.1	37.8	0.7	1.4	12.1
Hanover	–	85	43	6.1	59.8	5.0	9.7	44.3	114.7	122.6	236.1	6.3	6.4	88.2
Harrisburg	–	87	34	5.0	63.3	3.3	6.3	38.1	149.3	110.8	256.0	7.8	6.3	118.3
Hatboro	–	47	13	1.3	14.8	1.1	2.1	11.4	87.4	32.0	119.1	1.3	1.4	65.2
Hatfield twp	–	16	11	0.7	9.0	0.4	0.8	5.1	22.5	16.3	38.2	(D)	(NA)	(NA)
Haverford twp	E1	19	1	0.9	7.3	0.7	1.4	4.7	12.7	5.2	17.6	0.3	0.6	6.8
Hazleton	–	94	49	5.2	47.7	4.3	7.4	35.6	80.6	103.2	187.7	5.2	5.8	84.5
Hellertown	–	8	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hempfield twp	–	13	6	0.7	6.8	0.5	1.0	5.1	11.2	20.1	31.4	0.3	0.5	5.7
Honesdale	–	22	10	1.3	12.7	1.1	2.0	9.1	37.3	56.3	91.8	(D)	1.4	25.6
Horsham twp	–	45	22	2.5	34.6	1.1	2.3	12.7	64.5	58.4	118.6	5.3	1.0	14.7
Huntingdon	–	16	7	1.4	15.0	1.2	2.4	12.3	37.5	24.9	63.0	(D)	1.9	24.6
Indiana	–	31	9	2.0	22.6	1.5	2.8	15.1	38.7	52.0	92.6	(D)	1.0	18.5
Irwin	E1	22	6	0.5	7.0	0.3	0.6	3.9	13.1	9.9	23.3	0.5	1.0	12.6
Jeannette	–	30	13	5.3	75.5	3.4	6.8	43.9	168.5	88.8	258.9	8.5	5.2	93.3
Jenkintown	–	29	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Johnsonburg	–	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Johnstown	–	52	24	13.3	228.0	10.2	17.4	166.9	328.7	428.0	796.7	20.1	16.2	260.8
Kane	–	21	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kennett Square	–	28	9	1.1	11.7	0.9	1.6	8.2	26.5	36.8	63.1	1.6	0.9	14.5
Kingston	–	23	10	1.2	10.1	1.0	1.8	7.1	21.6	21.3	43.1	0.3	2.6	25.9
Kittanning	–	18	11	1.0	9.4	0.9	1.6	6.8	15.7	21.3	37.3	1.8	0.8	12.9
Kutztown	–	21	10	1.3	10.9	1.1	2.1	8.3	19.2	13.5	31.1	1.1	1.4	11.9
Lancaster	–	150	64	15.2	206.4	11.3	22.5	131.6	449.5	384.4	828.1	49.6	8.7	163.7
Lansdale	–	82	29	5.0	67.1	3.7	7.4	43.3	138.6	261.4	401.1	3.8	5.8	102.5
Lansford	E1	14	6	0.6	4.5	0.6	1.0	3.2	10.1	6.9	16.8	(D)	0.6	5.8
Latrobe	–	39	17	4.5	73.5	2.8	5.4	44.3	166.2	159.8	328.5	9.9	5.0	96.4
Lebanon	–	76	48	7.0	84.3	5.3	9.5	58.6	163.7	204.8	359.3	8.8	7.2	83.8
Lehighton	–	32	10	1.7	12.4	1.5	2.6	10.0	16.8	9.9	26.6	0.7	1.4	10.6
Lewisburg	–	14	6	1.5	14.7	1.2	2.6	10.6	27.9	32.0	58.8	(D)	1.6	27.0
Lewistown	–	29	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	33.7
Lititz	–	38	15	2.9	30.3	2.2	4.7	21.1	123.4	154.6	273.9	2.1	2.1	94.8
Littlestown	E1	22	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lock Haven	–	22	10	4.3	53.9	3.4	6.7	40.0	72.1	117.3	184.5	(D)	3.7	38.5
Lower Allen twp	–	9	6	1.2	11.2	0.5	0.8	4.0	25.9	103.0	127.4	1.1	(NA)	(NA)
Lower Merion twp	E1	71	11	1.4	17.6	0.5	0.9	5.4	17.7	15.8	33.8	0.9	5.5	68.9
Lower Moreland twp	–	80	23	2.0	27.4	1.5	3.0	18.4	52.2	44.1	95.2	3.2	1.7	25.6
Lower Providence twp	–	19	9	2.1	28.9	1.4	3.0	18.7	49.7	28.3	76.0	2.1	1.5	21.7
Lower Southampton twp	E1	61	16	1.1	15.1	0.8	1.7	9.1	28.9	23.7	52.4	1.8	(D)	(D)
Loyalsock twp	–	11	8	0.8	10.9	0.4	1.3	4.3	18.4	23.1	42.0	0.6	(NA)	(NA)
Lykens	–	8	4	0.6	7.9	0.5	1.0	5.1	14.9	9.2	23.9	0.2	0.6	8.5
McAdoo	E1	6	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	5.1
McKeesport	–	29	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	42.9
McKees Rocks	–	22	10	1.6	21.8	1.1	2.3	14.9	37.1	23.7	60.6	1.3	(D)	(D)
McSherrystown	–	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mahanoy City	–	7	6	0.8	5.5	0.8	1.3	4.8	8.6	4.9	13.3	0.1	(D)	(D)
Malvern	E2	24	10	0.5	7.5	0.3	0.5	2.9	11.0	9.3	20.3	0.5	(D)	(D)
Manheim	–	30	11	2.0	24.2	1.5	2.7	17.2	61.3	51.4	112.0	2.2	2.3	36.5
Manheim twp	–	51	24	4.3	69.7	2.2	4.6	30.4	128.3	220.5	341.7	9.5	2.6	41.3
Manor twp	E0	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972—Con.

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
PLACES—Con.														
Marcus Hook	–	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Marietta	–	12	4	0.7	7.9	0.6	1.1	6.5	25.8	21.4	47.2	(D)	(D)	(D)
Marple twp	E1	35	10	0.6	7.6	0.5	0.9	4.6	17.8	13.2	30.9	0.9	0.6	10.3
Meadville	–	74	22	4.8	58.7	3.4	6.8	38.0	96.4	79.8	175.6	4.7	6.2	107.7
Mechanicsburg	–	29	16	1.8	19.6	1.3	2.7	13.2	47.5	61.0	108.6	2.6	1.8	36.7
Middletown	–	10	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	31.0
Middletown twp	–	20	8	2.9	54.5	1.9	3.2	24.9	117.9	128.1	246.3	(D)	2.0	66.3
Midland	–	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mifflinburg	–	8	5	0.6	4.8	0.6	1.1	4.1	8.3	10.6	19.4	(D)	(D)	(D)
Millcreek twp	–	107	42	5.1	75.4	3.0	5.9	35.8	150.4	116.0	265.0	7.9	4.4	72.8
Millersburg	–	15	7	1.6	12.3	1.4	2.7	10.1	22.3	16.5	38.0	0.4	1.9	15.6
Milton	–	21	15	3.8	48.7	3.1	6.3	37.6	117.1	184.0	302.2	3.1	3.7	63.2
Monaca	–	20	13	4.5	67.6	3.3	6.1	45.2	119.6	250.3	378.5	(D)	4.3	77.8
Monessen	–	8	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Monongahela	–	11	4	0.8	11.2	0.6	1.2	9.1	18.6	20.5	39.0	0.9	0.9	16.9
Monroeville	E2	27	8	0.6	7.1	0.2	0.4	2.0	10.3	9.6	19.9	0.4	(NA)	(NA)
Montoursville	–	16	7	2.5	27.3	2.2	3.9	22.2	80.5	43.2	128.4	0.7	2.2	58.9
Moosic	–	14	9	0.6	6.8	0.4	0.9	4.0	14.6	22.2	37.2	2.3	1.5	17.5
Morrisville	–	27	11	1.3	16.0	1.0	2.0	11.5	54.2	66.2	121.6	2.2	2.0	39.1
Mount Carmel	E1	15	7	0.6	3.7	0.6	0.8	3.1	5.8	4.4	10.2	0.2	1.0	8.6
Mount Joy	–	18	9	1.3	13.0	1.1	2.1	9.9	56.2	61.1	115.4	2.2	1.6	50.3
Mount Pleasant twp	–	9	6	1.3	16.1	1.1	2.0	12.4	28.6	22.5	50.5	1.5	0.9	10.5
Mount Union	–	7	3	0.5	6.0	0.4	0.8	5.1	13.8	4.9	19.8	(D)	1.3	13.3
Muhlenberg twp	–	35	24	6.4	98.8	4.2	8.3	56.3	210.5	208.4	413.9	21.2	1.9	35.7
Muncy	–	6	4	1.5	18.3	0.8	1.6	9.2	40.1	32.0	71.7	(D)	1.8	28.0
Munhall	–	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Myerstown	–	25	11	2.2	27.4	1.7	3.2	19.7	125.4	51.4	179.1	5.2	2.3	103.5
Nanticoke	E1	11	7	0.5	4.0	0.5	0.8	2.9	8.8	13.1	22.1	0.1	0.6	4.1
Nazareth	–	43	22	2.6	28.6	2.1	3.8	19.3	45.6	45.5	92.9	(D)	3.1	46.1
Nesquehoning	–	14	7	0.6	5.3	0.5	0.9	3.6	15.5	14.6	30.3	(D)	0.7	9.2
New Brighton	E1	22	9	0.5	6.5	0.4	0.8	4.3	12.9	12.9	25.5	0.8	0.5	6.6
New Castle	–	81	33	5.4	77.9	4.0	7.7	52.8	155.6	163.6	315.0	11.2	5.4	87.2
New Holland	–	25	13	5.2	78.8	2.9	6.1	35.3	138.7	155.2	284.4	6.5	3.8	62.5
New Kensington	E1	31	9	0.9	9.8	0.8	1.4	7.6	19.7	27.4	48.4	0.8	1.9	14.5
Norristown	–	73	25	2.9	33.7	1.7	3.5	18.0	89.5	73.6	162.5	10.7	3.6	80.7
Northampton	–	21	14	2.5	23.4	2.2	3.8	19.1	37.3	33.1	70.5	1.0	2.3	27.7
North East	–	17	7	1.2	15.9	0.8	1.7	9.7	44.4	50.5	98.3	2.0	1.2	33.1
North Huntingdon twp	E1	22	8	0.7	8.5	0.4	0.8	4.9	16.5	15.8	32.2	0.9	(NA)	(NA)
North Union twp	–	6	4	0.7	8.6	0.6	1.1	6.4	17.3	20.7	37.9	0.3	(NA)	(NA)
North Versailles	–	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Wales	–	27	13	3.6	54.9	1.8	3.4	21.7	102.8	56.4	159.7	5.5	3.8	67.5
Oakmont	–	30	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	32.3
Oil City	–	27	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Old Forge	–	29	16	1.1	8.0	0.9	1.5	5.7	17.1	13.2	30.3	1.0	1.4	12.6
Olyphant	–	14	9	0.8	6.9	0.8	1.4	5.8	10.6	11.0	21.6	0.9	0.8	5.3
Orwigsburg	–	16	10	0.9	6.5	0.8	1.4	5.4	10.2	8.5	18.7	0.2	1.3	10.7
Palmer twp	–	8	5	1.1	13.4	0.7	1.5	8.0	29.4	24.0	53.6	1.0	1.2	21.0
Palmerton	–	20	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Palmyra	–	19	8	0.9	7.8	0.8	1.6	6.2	15.5	19.4	35.0	0.2	(D)	(D)
Pen Argyl	–	32	20	1.3	9.3	1.2	2.1	7.9	15.5	14.1	30.1	0.2	2.1	17.6
Penn Hills twp	E3	30	7	0.7	9.3	0.4	0.8	5.6	15.3	26.3	42.7	0.5	0.6	10.5
Perkasie	–	34	15	1.7	17.9	1.4	2.5	13.6	27.5	39.7	67.4	1.6	1.9	25.7
Philadelphia	–	2 816	1 047	157.5	2 104.5	106.5	205.1	1 211.2	4 127.7	6 358.4	10 430.7	200.3	(NA)	(NA)
Phoenixville	–	35	14	1.9	26.0	1.4	2.7	17.4	43.6	51.2	96.4	1.2	2.8	40.4
Pittsburgh	–	719	240	55.3	1 025.8	22.9	43.3	314.8	1 030.1	1 067.0	2 060.0	54.5	62.3	685.3
Pittston	E2	43	25	1.5	9.0	1.4	2.4	7.6	11.7	4.5	16.4	0.2	1.8	10.8
Plains twp	E2	14	10	0.6	5.0	0.6	1.0	3.9	9.2	13.8	22.9	0.1	1.1	14.9
Plum	–	16	7	1.1	15.8	0.7	1.4	6.2	28.1	26.5	54.7	1.1	(NA)	(NA)
Plymouth	–	12	10	0.6	4.5	0.5	0.9	3.6	10.2	6.2	16.4	(D)	0.6	3.9
Plymouth twp	–	34	16	1.9	25.8	1.2	2.1	12.6	52.1	44.8	94.7	2.1	5.2	103.6
Portage	–	13	6	0.6	4.9	0.5	1.0	3.9	8.0	6.8	14.8	0.8	0.5	5.8
Port Allegany	–	13	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Port Carbon	–	8	4	0.7	6.2	0.6	1.0	4.5	11.7	14.5	25.3	(D)	0.7	8.3
Pottstown	–	79	32	5.2	76.6	3.6	7.1	47.2	176.1	179.5	353.6	8.9	7.3	147.7
Pottsville	–	35	19	1.7	14.5	1.4	2.5	10.8	36.5	50.5	87.3	1.5	2.2	23.8
Punxsutawney	–	26	12	1.7	12.6	1.5	2.9	10.7	23.1	28.4	51.7	(D)	1.1	11.8
Quakertown	–	64	23	2.0	21.0	1.6	3.1	15.0	44.2	39.9	83.1	1.1	3.1	41.4
Radnor twp	–	42	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Reading	–	226	92	17.5	247.6	12.6	24.5	162.8	549.7	607.4	1 146.7	29.4	24.2	487.4
Red Lion	–	44	12	1.6	17.6	1.2	2.4	12.0	34.7	52.5	87.9	3.3	1.8	20.2
Ridgway	–	19	10	1.2	13.0	0.9	1.8	9.3	26.7	27.2	54.4	1.5	1.0	13.4
Ridley twp	–	23	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Roaring Spring	–	6	6	0.9	12.9	0.7	1.4	9.2	30.5	32.3	58.9	(D)	(D)	(D)
Rochester	–	16	5	0.6	7.4	0.4	0.8	5.1	14.4	13.4	26.8	0.4	0.7	13.7
Royersford	–	17	8	1.1	14.8	0.9	1.9	11.0	29.7	27.0	56.8	1.0	1.5	21.9
St. Marys	–	32	12	5.2	65.3	3.9	7.4	44.2	121.9	84.5	200.2	8.8	5.7	108.4
Sayre	–	12	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	8.6
Schuylkill Haven	–	30	18	2.3	15.9	1.6	2.9	10.0	25.5	40.0	64.1	0.9	2.7	24.1
Scottdale	–	25	8	1.2	12.5	0.8	1.5	7.3	20.0	22.2	42.4	1.0	1.1	12.4
Scranton	E1	221	103	10.9	103.0	8.7	15.6	71.2	168.2	168.3	331.9	8.3	14.0	139.9
Selinsgrove	–	18	12	0.8	5.6	0.7	1.1	4.3	9.2	14.0	23.3	0.5	0.8	9.9
Sellersville	–	20	8	2.2	29.3	1.7	3.8	21.5	54.1	27.2	80.0	1.8	1.8	32.3
Shaler twp	–	32	10	1.1	15.0	0.9	1.7	10.0	29.4	24.7	54.2	3.0	1.3	16.6

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972—Con.

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
PLACES—Con.														
Shamokin	-	20	11	1.2	7.6	1.0	1.3	5.4	10.7	4.4	15.0	0.4	2.7	23.1
Sharon	-	30	14	5.0	79.0	3.6	6.6	52.9	150.0	118.3	268.1	8.6	6.4	105.2
Sharpsville	-	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Shenandoah	E1	23	13	0.9	6.0	0.8	1.3	4.7	9.5	3.3	12.8	0.3	1.1	7.1
Shippensburg	-	16	13	2.0	18.8	1.6	3.0	14.0	39.2	36.4	74.0	1.8	2.2	28.6
Sinking Spring	-	12	6	0.9	9.1	0.8	1.6	6.9	15.6	17.1	32.7	1.4	1.2	17.8
Slatington	E1	13	8	0.9	8.0	0.8	1.4	6.0	12.2	12.0	23.9	0.5	0.9	9.9
Somerset	-	17	9	1.1	9.0	0.9	1.9	7.1	26.3	40.0	65.4	1.0	1.1	15.9
Souderton	E1	21	10	1.0	10.3	0.9	1.5	7.6	20.4	10.1	30.5	0.4	1.2	28.0
South Greensburg	-	8	5	2.0	28.0	1.5	2.8	19.5	47.7	41.9	90.2	3.3	(D)	(D)
South Whitehall twp	-	9	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	5.4
Spring City	-	17	8	1.7	14.5	1.4	2.5	11.4	33.3	56.5	88.1	1.4	1.9	14.5
Springdale	-	9	5	0.5	6.4	0.4	0.6	3.7	24.2	31.8	55.2	3.5	1.0	11.1
Springettsbury twp	-	23	15	7.7	122.2	5.9	11.6	85.7	304.8	262.8	568.3	23.3	1.9	26.2
Springfield twp	E1	39	10	0.6	7.7	0.4	0.7	3.7	13.5	13.7	27.7	0.6	0.7	12.5
Spring Garden twp	-	26	17	1.8	20.4	1.4	2.6	13.1	46.3	55.6	100.2	1.5	1.5	26.9
State College	-	34	13	1.2	14.0	0.8	1.5	8.3	38.0	21.4	57.9	1.8	1.6	43.8
Steelton	-	9	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Stowe twp	-	12	9	1.1	16.2	0.7	1.3	8.9	40.8	46.7	86.7	2.9	1.1	20.3
Stroudsburg	-	30	12	0.7	7.5	0.6	1.0	5.4	15.0	9.8	24.8	0.5	(D)	(D)
Sunbury	-	36	16	2.1	21.5	1.4	2.8	12.8	39.4	52.2	91.6	1.7	2.3	29.8
Susquehanna twp	-	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Swatara twp	-	29	12	3.7	65.6	0.6	1.2	5.7	23.2	25.5	47.1	1.2	(D)	(D)
Swoyersville	-	19	12	1.1	9.2	1.0	1.7	7.8	16.4	14.3	30.2	0.2	0.8	7.3
Tamaqua	-	26	13	2.5	24.8	1.9	3.4	16.7	57.4	50.9	107.7	4.3	2.1	24.9
Tarentum	-	20	6	0.6	7.1	0.4	0.8	4.4	14.7	11.0	25.7	0.6	(NA)	(NA)
Taylor	-	12	8	0.7	7.4	0.6	1.1	5.5	9.8	13.3	23.3	0.1	0.6	6.5
Telford	E2	30	10	0.9	7.4	0.8	1.3	5.5	16.3	11.6	27.4	0.5	0.7	8.0
Throop	-	10	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Titusville	-	21	12	1.5	22.8	1.3	2.5	18.3	46.3	91.5	135.3	1.7	2.0	36.5
Trafford	-	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Tredyffrin twp	-	29	12	2.7	39.3	1.4	2.4	14.6	77.8	53.0	126.2	(D)	3.6	27.7
Tyrone	-	16	5	0.9	9.0	0.8	1.4	7.8	20.8	33.5	53.1	0.7	1.3	22.1
Union City	-	18	9	1.2	10.9	0.9	1.7	7.2	21.8	35.8	55.8	2.2	1.1	9.9
Uniontown	-	38	12	2.1	24.1	1.5	2.8	15.4	57.4	53.4	110.9	2.2	2.1	38.7
Upper Darby twp	-	59	11	1.3	14.0	0.9	1.7	8.3	27.8	21.5	49.3	2.0	0.9	14.2
Upper Dublin twp	-	41	24	10.2	162.5	4.3	8.5	56.9	450.7	213.5	653.9	12.6	6.2	142.6
Upper Merion twp	-	67	31	8.6	158.0	3.6	7.1	51.6	234.4	233.4	477.4	17.3	5.3	105.1
Upper Moreland twp	E1	63	30	2.6	29.1	1.9	3.5	17.3	63.5	54.0	115.7	5.1	2.3	33.1
Upper Southampton twp	E2	56	25	1.5	18.0	1.2	2.3	12.1	35.0	34.2	68.7	2.3	1.6	22.5
Vandergrift	-	11	4	1.3	20.9	1.0	1.8	15.7	24.5	6.4	30.4	2.0	(D)	(D)
Verona	-	17	9	1.0	12.4	0.6	1.2	7.3	21.0	25.4	45.8	0.9	1.1	15.4
Warminster twp	-	59	22	5.6	77.8	3.7	8.0	42.8	149.8	102.7	250.6	6.3	4.5	78.1
Warren	-	53	26	4.0	50.2	2.8	5.7	31.6	115.6	381.0	487.4	7.4	3.4	64.9
Washington	-	55	25	4.1	56.5	3.3	6.1	42.5	128.6	193.0	318.5	5.2	5.0	85.5
Watsontown	-	9	6	1.9	17.2	1.8	2.9	15.5	33.7	56.1	86.2	2.3	1.2	12.9
Waynesboro	-	33	17	3.8	43.7	2.7	5.6	28.4	78.9	51.0	127.2	3.5	3.4	43.5
Weatherly	-	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wellsboro	-	11	4	0.8	9.3	0.6	1.1	6.2	25.7	40.5	66.8	0.9	0.8	23.0
West Chester	-	45	12	1.8	21.8	1.2	2.7	12.2	48.2	53.0	100.9	2.3	2.5	60.1
West Goshen twp	-	35	16	3.3	38.5	2.5	4.7	26.3	87.8	94.0	180.9	9.0	1.5	23.1
West Hazleton	-	17	14	3.2	33.9	2.5	4.9	25.5	86.0	130.4	215.3	4.8	3.3	51.2
West Homestead	-	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
West Manchester twp	-	31	14	3.4	45.3	2.7	5.4	35.1	147.9	146.3	256.2	7.6	1.7	37.2
West Mifflin	-	17	9	3.5	80.9	2.5	5.6	57.3	132.2	154.0	283.5	4.2	(D)	(D)
West Norriton twp	-	15	4	1.1	15.5	0.7	1.3	6.5	37.9	21.2	58.7	0.5	(NA)	(NA)
West Pittston	E2	23	8	0.6	6.7	0.5	1.0	4.7	12.5	8.8	21.5	0.5	1.6	23.6
West Reading	-	15	8	1.4	11.3	1.2	2.3	8.8	28.3	24.3	51.6	1.2	1.0	14.0
West York	-	10	7	1.4	15.7	1.1	2.2	11.7	27.4	19.0	46.2	0.6	0.8	11.2
Whitehall	-	21	9	1.7	20.3	1.3	2.6	15.3	46.3	52.2	95.5	3.8	0.8	10.8
Whitemarsh	-	29	10	1.3	20.7	0.8	1.6	8.0	32.6	33.2	65.9	1.9	7.6	100.0
Wilkes-Barre	E2	141	75	8.3	73.4	6.4	10.9	48.3	124.4	103.5	226.0	12.7	10.7	123.5
Williamsport	-	92	49	9.7	114.5	7.3	13.6	78.2	310.5	279.8	577.8	12.0	10.0	163.9
Wilmerding	-	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wilson	-	12	11	2.7	36.0	2.1	4.0	26.3	71.4	43.3	113.2	1.6	0.6	13.2
Wrightsville	-	16	5	0.9	8.6	0.7	1.2	6.3	8.5	9.4	22.1	(D)	0.9	14.2
Wyomissing	-	14	9	2.0	23.8	1.4	2.7	13.9	29.7	28.4	59.5	1.3	(NA)	(NA)
York City	-	163	89	18.3	237.0	12.8	24.7	131.1	383.9	437.4	807.1	17.6	22.7	367.8
Youngwood	-	11	9	1.2	16.1	0.9	1.7	9.7	27.7	32.1	60.9	0.9	1.2	24.8
Zelienople	-	31	17	1.6	23.2	1.1	2.2	13.6	44.5	74.6	120.8	(D)	1.5	26.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	**18 735**	**7 704**	**1 329.2**	**18 042.7**	**934.1**	**1 781.6**	**10 948.8**	**36 016.9**	**44 393.0**	**79 844.8**	**2 297.4**	**1 417.5**	**23 518.5**
20	**Food and kindred products**	-	**1 579**	**623**	**92.3**	**1 142.0**	**63.7**	**125.3**	**698.9**	**3 204.9**	**6 322.5**	**9 508.3**	**238.8**	**99.1**	**2 077.4**
201	Meat products	-	259	110	14.9	181.7	11.9	23.2	128.5	378.4	1 641.9	2 011.3	35.6	13.4	220.8
2011	Meat packing plants	E1	146	45	4.7	64.3	3.8	7.7	46.5	121.8	773.3	891.3	8.4	5.1	83.5
2013	Sausages and other prepared meats	-	86	44	5.6	77.7	4.1	7.8	52.1	187.1	594.9	779.7	21.2	4.9	95.6
2016	Poultry dressing plants	-	20	14	3.8	31.2	3.3	6.3	23.7	49.4	193.7	239.8	3.9	EE	(D)
2017	Poultry and egg processing	-	7	7	0.8	8.5	0.7	1.4	6.1	20.1	80.1	100.4	2.1	EE	(D)
202	Dairy products	-	256	95	9.6	122.6	5.0	10.8	57.7	274.1	897.9	1 169.7	19.8	14.5	295.8
2022	Cheese, natural and processed	-	23	8	1.5	16.1	1.2	2.3	12.0	12.7	171.0	183.5	2.1	EE	(D)
2023	Condensed and evaporated milk	-	9	5	0.2	3.0	0.2	0.4	2.2	20.6	63.6	84.3	(D)	0.5	7.9
2024	Ice cream and frozen desserts	-	41	13	2.0	26.8	1.2	2.5	14.2	71.7	135.5	206.6	5.6	2.0	55.5
2026	Fluid milk	E1	179	66	5.7	75.9	2.4	5.5	28.7	164.2	494.5	657.5	10.9	10.7	201.6
203	Preserved fruits and vegetables	-	109	57	12.3	134.2	9.9	18.8	97.9	444.3	727.2	1 173.3	17.7	13.7	304.0
2032	Canned specialties	-	11	5	3.6	44.6	3.0	5.9	35.0	148.1	188.3	335.1	4.3	FF	(D)
2033	Canned fruits and vegetables	-	42	22	4.0	35.2	3.4	6.7	26.9	114.7	220.2	338.3	6.9	4.4	85.3
2035	Pickles, sauces, and salad dressings	-	13	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2037	Frozen fruits and vegetables	-	8	7	0.7	6.6	0.6	1.1	4.9	15.6	36.3	51.9	0.7	BB	(D)
2038	Frozen specialties	-	34	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	69.0
204	Grain mill products	-	153	36	4.2	56.4	2.9	5.9	33.8	270.1	640.2	910.7	36.5	4.1	141.9
2041	Flour and other grain mill products	E4	36	4	0.3	4.6	0.3	0.5	2.9	12.6	65.9	78.5	0.3	BB	(D)
2043	Cereal breakfast foods	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2045	Blended and prepared flour	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2046	Wet corn milling	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2047	Dog, cat, and other pet food	-	19	9	1.4	19.9	0.9	2.0	11.6	105.9	153.7	259.6	4.1	EE	(D)
2048	Prepared feeds, n.e.c.	-	86	16	1.3	15.2	0.7	1.5	7.6	48.9	285.2	334.0	(D)	1.6	41.4
205	Bakery products	-	297	108	18.1	235.0	11.6	22.8	138.1	587.3	406.7	994.0	23.6	19.4	384.4
2051	Bread, cake, and related products	-	246	86	12.9	168.7	7.3	14.3	86.1	386.6	267.6	653.9	14.7	14.3	246.7
2052	Cookies and crackers	-	51	22	5.1	66.4	4.3	8.5	52.0	200.7	139.1	340.1	8.9	5.1	137.8
206	Sugar and confectionery products	-	141	57	15.3	180.0	11.3	21.7	121.0	511.0	873.8	1 380.3	50.1	15.1	326.9
2062	Cane sugar refining	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2065	Confectionery products	-	121	44	5.5	53.0	4.6	8.7	40.0	161.9	208.7	368.8	13.5	6.1	99.3
2066	Chocolate and cocoa products	-	13	8	5.7	76.3	3.8	7.2	46.4	239.5	442.9	678.7	(D)	5.9	140.6
2067	Chewing gum	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
207	Fats and oils	-	34	15	1.0	13.6	0.6	1.2	6.7	36.9	131.0	167.0	4.2	0.8	20.5
2077	Animal and marine fats and oils	-	28	12	0.8	10.9	0.4	1.0	5.3	30.5	81.5	111.2	3.6	CC	(D)
208	Beverages	-	181	85	9.2	136.6	5.0	10.0	65.6	429.4	547.6	973.3	35.3	10.9	243.5
2082	Malt beverages	-	14	9	2.6	41.5	2.0	3.7	30.9	167.3	162.3	329.0	(D)	3.8	89.3
2085	Distilled liquor, except brandy	-	7	5	1.1	14.4	0.9	1.8	11.0	60.9	73.5	134.2	1.6	EE	(D)
2086	Bottled and canned soft drinks	-	137	67	5.2	76.3	2.0	4.0	21.3	187.4	293.1	477.6	15.4	5.7	104.2
2087	Flavoring extracts and sirups, n.e.c.	E4	17	4	0.2	3.9	0.1	0.5	2.1	12.5	13.4	25.9	0.4	0.3	8.2
209	Miscellaneous foods and kindred products	-	149	60	7.8	82.0	5.6	10.8	49.6	273.4	456.1	728.8	16.0	7.1	139.6
2091	Canned and cured seafoods	-	3	2	0.2	1.9	0.1	0.3	1.4	0.3	8.4	8.8	(D)	(NA)	(NA)
2092	Fresh or frozen packaged fish	-	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2098	Macaroni and spaghetti	-	11	6	0.7	8.2	0.5	1.0	5.0	30.0	27.0	57.1	0.6	CC	(D)
2099	Food preparations, n.e.c.	-	102	46	6.0	62.9	4.2	8.2	36.8	189.6	249.5	438.3	10.7	5.0	100.2
21	**Tobacco products**	-	**30**	**19**	**3.3**	**25.6**	**3.0**	**5.6**	**20.7**	**74.1**	**69.6**	**142.9**	**2.2**	**6.9**	**117.0**
2121	Cigars	-	18	12	2.7	20.4	2.5	4.8	17.2	63.7	41.9	104.9	0.8	6.0	104.7
2141	Tobacco stemming and redrying	-	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
22	**Textile mill products**	-	**536**	**331**	**46.8**	**412.6**	**40.4**	**76.8**	**315.5**	**803.8**	**1 088.9**	**1 883.6**	**38.4**	**61.3**	**706.4**
2221	Weaving mills, manmade fiber and silk	-	36	30	4.5	40.7	4.0	8.4	33.7	68.7	90.5	160.5	2.9	5.8	69.7
2231	Weaving and finishing mills, wool	-	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	13.9
2241	Narrow fabric mills	-	37	22	2.2	19.1	1.9	3.8	14.6	32.2	33.4	65.6	0.9	4.2	35.3
225	Knitting mills	E1	233	159	25.2	210.7	21.8	39.7	159.3	446.4	585.0	1 025.0	20.1	32.1	376.1
2251	Women's hosiery, except socks	E3	24	6	0.3	2.1	0.3	0.5	1.7	3.6	3.1	7.1	(D)	EE	(D)
2252	Hosiery, n.e.c.	-	13	5	1.3	10.4	1.0	1.9	7.4	18.1	18.4	36.4	0.3	2.1	23.3
2253	Knit outerwear mills	E2	84	67	12.6	99.9	10.9	19.1	73.9	206.8	202.8	406.0	5.8	13.6	144.2
2254	Knit underwear mills	-	34	29	4.5	31.9	3.9	7.0	25.3	63.6	85.0	147.5	3.5	FF	(D)
2257	Circular knit fabric mills	E1	45	28	3.5	35.2	2.9	5.9	26.2	75.9	129.5	204.0	6.8	4.2	59.5
2258	Warp knit fabric mills	-	26	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	78.2
2259	Knitting mills, n.e.c.	-	7	4	0.2	1.9	0.2	0.4	1.4	4.8	3.2	8.0	(D)	0.3	2.7

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
22	**Textile mill products**—Con.														
226	Textile finishing, except wool	–	53	24	1.8	17.7	1.5	3.0	13.3	28.2	31.7	61.7	1.0	2.5	38.9
2261	Finishing plants, cotton	E2	15	5	0.3	2.8	0.2	0.5	2.1	5.8	3.5	9.2	0.1	0.4	9.5
2262	Finishing plants, synthetics	–	16	6	0.6	6.3	0.4	1.0	4.7	8.8	7.5	18.6	0.4	1.1	10.7
2269	Finishing plants, n.e.c.	–	22	13	0.9	8.6	0.8	1.5	6.5	13.6	20.7	33.9	0.4	1.1	18.7
227	Floor covering mills	–	23	12	3.3	39.4	2.7	5.7	31.2	74.6	141.4	213.7	4.1	4.8	60.5
2271	Woven carpets and rugs	–	10	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2272	Tufted carpets and rugs	–	6	5	2.6	31.8	2.1	4.4	25.4	54.5	114.1	166.7	(D)	3.8	46.1
2279	Carpets and rugs, n.e.c.	–	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
228	Yarn and thread mills	–	54	44	5.1	40.3	4.7	9.2	33.5	60.1	82.7	143.8	4.9	FF	(D)
2281	Yarn mills, except wool	E1	13	8	1.4	11.4	1.3	2.6	9.7	21.0	26.1	47.3	2.5	1.1	9.9
2282	Throwing and winding mills	–	28	25	2.9	21.5	2.7	5.1	18.0	26.1	35.4	62.1	(D)	3.9	29.1
2283	Wool yarn mills	–	7	6	0.3	2.7	0.3	0.5	2.1	4.1	6.5	10.5	0.1	CC	(D)
2284	Thread mills	–	6	5	0.6	4.6	0.5	1.0	3.7	8.9	14.8	23.9	0.7	0.5	5.2
229	Miscellaneous textile goods	–	77	32	3.6	36.0	2.9	5.3	23.1	77.6	101.2	176.8	3.6	3.8	51.7
2292	Lace goods	–	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.2
2295	Coated fabrics, not rubberized	E1	8	5	0.7	9.5	0.5	1.0	5.6	23.4	25.7	48.7	1.1	0.8	17.1
2296	Tire cord and fabric	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2297	Nonwoven fabrics	–	13	7	0.9	8.3	0.7	1.3	5.0	21.1	28.6	49.4	1.4	CC	(D)
2298	Cordage and twine	–	9	7	0.7	6.9	0.6	1.1	4.7	13.7	15.2	28.2	0.5	0.3	3.6
2299	Textile goods, n.e.c.	E2	31	5	0.3	2.9	0.3	0.5	1.9	5.5	6.6	12.0	0.3	0.8	9.0
23	**Apparel and other textile products**	–	**1 979**	**1 370**	**132.6**	**928.5**	**118.9**	**200.8**	**746.5**	**1 605.8**	**1 215.8**	**2 786.2**	**28.3**	**155.7**	**1 288.7**
2311	Men's and boys' suits and coats	–	139	103	22.2	196.8	19.4	34.7	155.4	348.4	297.4	636.5	5.3	27.8	294.7
232	Men's and boys' furnishings	–	231	183	21.9	150.3	20.1	33.9	125.4	253.5	229.4	477.7	3.7	28.6	239.4
2321	Men's and boys' shirts and nightwear	–	76	67	10.4	69.7	9.5	16.2	59.1	126.2	122.1	245.8	1.8	12.0	105.6
2322	Men's and boys' underwear	–	10	7	0.8	5.0	0.7	1.2	3.6	6.0	10.3	16.6	(D)	1.0	7.0
2327	Men's and boys' separate trousers	–	53	42	4.8	35.9	4.5	7.5	30.8	49.1	32.9	80.7	0.6	6.8	57.0
2328	Men's and boys' work clothing	–	26	22	2.1	14.2	2.0	3.2	12.0	25.2	28.5	52.7	(D)	3.2	26.9
2329	Men's and boys' clothing, n.e.c.	–	56	43	3.7	24.4	3.3	5.6	19.2	44.5	33.9	77.7	0.8	4.9	36.0
233	Women's and misses' outerwear	E1	1 012	765	58.9	377.6	53.7	88.0	309.6	627.9	370.6	984.2	12.6	63.2	450.3
2331	Women's and misses' blouses and waists	–	277	249	20.0	129.7	18.4	30.2	108.4	215.3	123.1	326.8	6.1	16.5	114.7
2335	Women's and misses' dresses	E3	535	365	24.8	152.6	22.7	37.0	126.1	231.4	105.9	337.7	3.9	35.0	249.5
2337	Women's and misses' suits and coats	–	72	60	5.3	38.9	4.5	7.5	28.7	88.5	76.5	163.3	0.9	3.4	22.1
2339	Women's and misses' outerwear, n.e.c.	E1	128	91	8.9	56.3	8.1	13.2	46.4	92.7	65.0	156.3	1.6	8.4	64.0
234	Women's and children's undergarments	E1	99	82	9.6	61.3	8.3	14.1	47.5	107.9	82.6	187.9	2.2	12.3	96.5
2341	Women's and children's underwear	E1	83	69	8.2	51.7	7.0	11.9	39.7	90.2	71.0	158.4	2.0	0.4	83.4
2342	Brassieres and allied garments	–	16	13	1.4	9.6	1.3	2.2	7.8	17.7	11.6	29.5	0.1	1.9	13.1
235	Hats, caps, and millinery	–	24	14	1.5	11.5	1.3	2.4	8.3	18.2	18.7	36.6	0.4	1.1	9.7
2352	Hats and caps, except millinery	–	20	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	8.7
236	Children's outerwear	E1	120	101	8.5	54.4	7.6	12.6	44.7	102.4	64.8	165.3	1.0	9.4	78.4
2361	Children's dresses and blouses	–	79	65	5.6	34.1	5.0	8.2	27.6	61.8	40.8	101.7	0.4	6.4	40.4
2363	Children's coats and suits	E1	10	8	0.7	5.1	0.6	1.1	4.3	9.7	3.1	12.7	0.2	1.2	10.9
2369	Children's outerwear, n.e.c.	E1	31	28	2.2	15.2	1.9	3.3	12.8	30.9	21.0	50.8	0.3	1.9	14.3
238	Miscellaneous apparel and accessories	–	59	30	2.6	16.8	2.3	3.9	13.1	35.1	37.8	72.2	1.0	3.7	29.5
2381	Fabric dress and work gloves	–	6	4	0.4	2.3	0.3	0.6	1.8	4.8	4.4	9.1	(Z)	BB	(D)
2384	Robes and dressing gowns	–	10	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	2.9
2385	Waterproof outer garments	E1	5	3	0.2	1.4	0.2	0.3	1.2	1.9	0.6	2.5	(Z)	1.0	9.4
2387	Apparel belts	–	12	6	0.5	3.5	0.4	0.7	2.4	7.4	6.7	14.0	0.1	0.5	4.3
2389	Apparel and accessories, n.e.c.	–	26	9	1.1	7.2	1.0	1.8	5.6	17.4	25.3	42.2	0.8	EE	(D)
239	Miscellaneous fabricated textile products	–	285	90	7.4	59.3	6.2	11.2	41.9	111.5	112.6	223.0	2.2	9.6	90.1
2391	Curtains and draperies	–	70	18	1.2	8.0	1.0	1.8	5.7	14.2	20.7	36.5	0.2	1.6	14.0
2392	House furnishings, n.e.c.	–	54	21	2.1	15.4	1.7	3.0	10.7	31.9	34.8	65.0	0.5	2.7	26.2
2393	Textile bags	E2	11	6	0.3	2.7	0.3	0.5	1.8	6.4	5.7	12.0	0.2	0.2	1.2
2394	Canvas and related products	E2	52	4	0.4	3.1	0.3	0.5	1.9	6.2	4.2	10.4	0.2	0.6	5.2
2395	Pleating and stitching	–	24	7	0.7	5.9	0.6	0.9	4.1	10.4	10.1	20.4	0.2	1.0	12.3
2396	Automotive and apparel trimmings	–	30	13	0.7	7.2	0.6	1.2	5.3	12.5	14.3	26.9	(D)	1.0	12.1
2397	Schiffli machine embroideries	–	4	3	0.2	1.7	0.2	0.4	1.4	2.7	1.1	3.9	(D)	(NA)	(NA)
2399	Fabricated textile products, n.e.c.	–	40	18	1.8	15.3	1.6	3.1	11.0	27.2	21.7	48.0	0.6	2.3	18.0

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
24	**Lumber and wood products**	**E1**	**1 324**	**244**	**20.4**	**202.2**	**17.1**	**32.5**	**147.4**	**438.5**	**600.7**	**1 028.5**	**34.7**	**22.2**	**321.5**
2411	Logging camps and logging contractors	E4	256	7	1.0	9.5	0.9	1.4	8.0	25.5	23.2	47.5	3.1	0.7	7.9
242	Sawmills and planing mills	E2	486	63	4.8	41.5	4.2	8.5	32.5	95.4	109.9	201.4	12.7	4.4	53.6
2421	Sawmills and planing mills, general	E2	433	43	3.6	31.6	3.2	6.4	24.7	76.1	92.2	164.7	11.1	3.2	40.6
2426	Hardwood dimension and flooring	E1	50	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
243	Millwork, plywood, and structural members	-	247	77	6.2	65.9	5.1	9.8	47.0	125.4	151.0	275.9	4.8	6.6	83.0
2431	Millwork	-	103	28	1.9	19.1	1.5	2.9	13.4	38.2	74.5	112.2	2.0	2.0	27.0
2434	Wood kitchen cabinets	-	120	40	3.7	40.1	3.1	5.9	28.6	74.7	54.4	129.2	2.5	3.8	45.9
2435	Hardwood veneer and plywood	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.5
2439	Structural wood members, n.e.c.	-	18	5	0.2	2.5	0.1	0.3	1.5	5.7	13.7	19.2	(D)	0.4	5.5
244	Wood containers	E2	115	32	1.9	16.1	1.6	3.0	12.2	28.8	40.6	69.3	1.4	1.4	14.7
2441	Nailed wood boxes and shook	E1	17	7	0.5	4.1	0.4	0.7	2.8	6.3	10.6	17.1	0.2	0.3	3.2
2448	Wood pallets and skids	E2	90	25	1.3	11.5	1.2	2.2	9.0	20.7	29.2	49.7	1.1	1.0	10.1
245	Wood buildings and mobile homes	-	63	44	4.1	45.6	3.2	5.9	30.7	95.2	195.6	290.3	4.0	6.5	131.6
2451	Mobile homes	-	26	23	2.1	22.4	1.6	2.9	15.1	42.9	97.6	140.7	2.2	4.2	68.8
2452	Prefabricated wood buildings	-	37	21	2.1	23.2	1.6	3.0	15.6	52.4	98.0	149.6	1.8	2.3	62.8
249	Miscellaneous wood products	-	157	21	2.4	23.6	1.9	4.0	17.0	68.2	80.5	144.2	8.7	2.4	30.7
2491	Wood preserving	-	16	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2499	Wood products, n.e.c.	-	140	18	2.2	20.8	1.8	3.6	15.3	60.6	57.3	114.3	8.1	2.3	28.7
25	**Furniture and fixtures**	**-**	**454**	**186**	**20.1**	**213.5**	**16.2**	**31.7**	**152.4**	**419.5**	**375.0**	**788.9**	**18.5**	**23.7**	**313.6**
251	Household furniture	-	241	97	9.5	86.2	8.0	15.5	62.6	160.4	173.6	334.2	5.4	12.6	152.6
2511	Wood household furniture	E1	114	34	3.6	30.8	3.2	6.5	23.8	58.7	51.0	107.2	3.0	4.6	48.8
2512	Upholstered household furniture	-	56	25	2.3	22.0	1.9	3.5	15.9	36.7	40.0	76.8	0.8	FF	(D)
2514	Metal household furniture	E1	26	16	2.0	18.8	1.7	3.3	13.7	31.0	44.8	78.7	0.4	EE	(D)
2515	Mattresses and bedsprings	-	35	18	0.9	10.3	0.7	1.2	5.7	24.1	29.2	52.8	0.7	1.0	17.4
2517	Wood TV and radio cabinets	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2519	Household furniture, n.e.c.	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
252	Office furniture	-	33	17	4.3	53.1	3.4	6.6	38.6	103.7	73.6	173.1	3.4	4.8	68.9
2521	Wood office furniture	-	13	5	0.6	6.1	0.4	0.8	3.7	12.4	5.8	17.4	0.3	0.7	7.9
2522	Metal office furniture	-	20	12	3.7	47.0	3.0	5.8	34.9	91.4	68.0	155.7	3.1	4.0	61.0
2531	Public building and related furniture	-	21	9	0.9	10.2	0.6	1.3	5.6	18.7	15.6	34.3	(D)	CC	(D)
254	Partitions and fixtures	-	117	51	4.5	53.7	3.5	7.0	38.8	117.2	94.7	210.8	7.1	4.4	67.9
2541	Wood partitions and fixtures	-	80	26	1.7	19.3	1.4	2.8	14.4	34.1	26.8	60.6	1.2	EE	(D)
2542	Metal partitions and fixtures	-	37	25	2.9	34.4	2.1	4.2	24.3	83.1	67.9	150.3	5.9	EE	(D)
259	Miscellaneous furniture and fixtures	-	42	12	0.9	10.4	0.7	1.3	6.8	19.5	17.6	36.5	(D)	EE	(D)
2591	Drapery hardware and blinds and shades	E3	19	3	0.2	1.7	0.1	0.2	1.0	3.3	3.4	6.7	(D)	0.2	3.0
2599	Furniture and fixtures, n.e.c.	-	23	9	0.8	8.7	0.6	1.0	5.8	16.2	14.1	29.8	0.9	CC	(D)
26	**Paper and allied products**	**-**	**398**	**266**	**39.9**	**556.1**	**31.3**	**61.9**	**389.4**	**1 394.9**	**1 942.5**	**3 320.8**	**119.3**	**41.9**	**782.2**
2621	Paper mills, except building paper	-	19	18	8.2	150.0	6.6	13.9	106.7	286.6	517.7	798.9	48.4	FF	(D)
2631	Paperboard mills	-	16	16	1.8	28.8	1.5	3.2	22.3	58.6	83.2	141.6	3.6	EE	(D)
264	Miscellaneous converted paper products	-	167	92	15.3	194.7	11.9	22.5	135.4	699.5	814.3	1 507.0	44.9	12.7	288.2
2641	Paper coating and glazing	-	31	15	2.4	33.8	1.7	3.5	21.1	110.0	141.3	247.6	4.3	1.4	46.0
2642	Envelopes	-	16	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2643	Bags, except textile bags	E1	26	14	2.5	30.8	1.9	3.8	21.3	68.6	108.8	177.2	2.8	2.2	43.3
2645	Die-cut paper and board	-	16	7	0.8	6.5	0.7	1.2	4.6	12.7	11.7	23.6	0.2	BB	(D)
2647	Sanitary paper products	-	10	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2648	Stationery products	-	18	6	1.1	12.4	0.8	1.6	8.0	26.9	34.9	61.1	2.8	1.8	25.0
2649	Converted paper products, n.e.c.	-	47	33	3.3	33.3	2.6	4.9	21.6	90.6	78.2	166.0	4.1	2.6	42.2
265	Paperboard containers and boxes	-	191	135	14.1	176.2	11.0	21.5	120.1	333.2	503.7	833.4	21.7	17.0	255.6
2651	Folding paperboard boxes	-	50	28	2.9	36.5	2.4	4.7	25.1	67.6	90.3	157.5	4.0	3.6	49.3
2652	Setup paperboard boxes	E1	28	23	1.2	10.8	1.1	2.0	8.1	17.2	14.3	31.2	0.8	2.1	19.7
2853	Corrugated and solid fiber boxes	-	81	61	6.6	88.4	4.8	9.6	55.6	160.3	263.9	424.0	12.9	7.6	117.0
2654	Sanitary food containers	-	13	10	2.1	24.7	1.7	3.2	18.6	55.3	80.7	133.3	2.5	2.6	49.3
2655	Fiber cans, drums, and similar products	-	19	13	1.3	15.8	1.1	2.1	12.6	32.8	54.8	87.4	1.4	1.1	20.2
2661	Building paper and board mills	-	5	5	0.5	6.5	0.4	0.8	4.9	17.0	23.5	39.9	0.8	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
27	**Printing and publishing**	-	**2 190**	**510**	68.6	**863.7**	**42.3**	**77.4**	**497.7**	**1 875.4**	**1 129.1**	**3 001.1**	**92.2**	**69.1**	**1 180.1**
2711	Newspapers	-	318	113	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	23.0	372.8
2721	Periodicals	-	102	18	4.1	48.4	0.7	1.3	6.5	279.7	180.5	459.6	1.5	FF	(D)
273	Books	-	113	41	6.3	74.5	4.0	7.4	41.9	168.4	94.1	260.7	6.7	6.1	95.5
2731	Book publishing	-	49	14	3.1	40.7	1.3	2.2	15.0	107.8	56.4	162.8	1.6	2.9	59.2
2732	Book printing	-	64	27	3.2	33.9	2.6	5.2	26.9	60.5	37.7	97.9	5.0	3.2	36.3
2741	Miscellaneous publishing	-	68	8	0.8	10.8	0.5	0.9	5.7	36.5	14.7	51.1	0.8	1.5	35.8
275	Commercial printing	-	1 297	220	23.3	305.6	18.2	33.5	218.3	524.5	427.6	953.3	30.4	25.4	373.3
2751	Commercial printing, letterpress	E1	687	51	6.0	63.2	4.6	8.2	43.2	125.0	104.9	229.6	5.7	8.1	114.7
2752	Commercial printing, lithographic	-	550	152	13.6	192.0	10.6	19.7	136.1	318.4	232.4	554.1	13.5	14.0	207.6
2753	Engraving and plate printing	-	39	10	1.3	14.0	1.1	2.1	10.4	23.4	12.2	34.5	5.4	0.5	8.0
2754	Commercial printing, gravure	-	21	7	2.4	36.4	2.0	3.5	28.6	57.6	78.1	135.1	5.8	2.7	43.0
2761	Manifold business forms	-	50	32	3.1	41.6	2.4	5.1	30.6	144.4	147.7	290.4	6.9	FF	(D)
2771	Greeting card publishing	-	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
278	Blankbooks and bookbinding	-	72	34	3.5	37.2	2.8	5.5	27.1	69.3	26.2	95.1	2.5	2.7	32.0
2782	Blankbooks and looseleaf binders	-	22	15	1.6	17.6	1.2	2.4	12.4	40.3	17.6	57.6	1.7	1.1	15.4
2789	Bookbinding and related work	-	50	19	1.9	19.6	1.6	3.1	14.7	29.1	8.6	37.5	0.8	1.6	16.7
279	Printing trade services	-	163	41	4.1	55.0	3.3	6.0	41.4	88.7	18.3	106.1	6.1	3.5	52.3
2791	Typesetting	-	109	32	3.3	40.8	2.7	4.9	31.1	67.2	12.3	78.7	4.5	2.7	38.7
2793	Photoengraving	E1	21	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	6.2
2795	Lithographic platemaking services	-	32	7	0.6	11.8	0.5	0.9	8.5	17.7	5.0	22.6	1.2	BB	(D)
28	**Chemicals and allied products**	-	**594**	**241**	**44.0**	**692.5**	**27.1**	**54.0**	**369.2**	**2 761.0**	**2 540.2**	**5 300.9**	**162.4**	**47.9**	**1 776.7**
281	Industrial inorganic chemicals	-	80	38	5.8	91.4	3.6	8.1	53.0	342.0	474.0	811.8	46.8	5.7	204.6
2813	Industrial gases	-	39	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2816	Inorganic pigments	-	11	9	1.5	20.7	1.0	1.9	12.8	66.8	79.3	144.2	9.0	1.5	47.4
2819	Industrial inorganic chemicals, n.e.c.	-	29	20	3.5	57.4	2.1	5.2	32.6	206.1	355.0	559.1	21.7	3.4	113.8
282	Plastics materials and synthetics	-	26	20	5.1	79.1	3.5	7.2	46.9	228.1	360.9	588.9	17.3	10.9	226.1
2821	Plastics materials and resins	-	21	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2823	Cellulosic manmade fibers	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2824	Organic fibers, noncellulosic	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
283	Drugs	-	70	32	14.8	265.5	8.5	16.5	126.9	1 383.7	501.0	1 880.0	33.8	13.0	906.6
2831	Biological products	E1	15	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2833	Medicinals and botanicals	-	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2834	Pharmaceutical preparations	-	47	22	13.6	245.6	7.7	15.0	114.7	1 258.7	453.9	1 703.5	29.4	11.9	866.7
284	Soaps, cleaners, and toilet goods	-	119	35	2.9	36.4	1.8	3.6	19.5	155.9	187.8	344.2	5.0	3.6	102.9
2841	Soap and other detergents	E1	35	9	0.8	10.0	0.6	1.0	6.0	41.9	54.5	96.6	1.2	CC	(D)
2842	Polishes and sanitation goods	-	48	14	1.1	12.6	0.7	1.4	6.8	58.0	66.4	124.1	1.8	1.3	36.1
2843	Surface active agents	-	12	9	0.6	9.1	0.3	0.7	4.5	29.6	56.0	85.6	1.6	CC	(D)
2844	Toilet preparations	E1	24	3	0.4	4.6	0.2	0.4	2.2	26.4	10.9	37.9	0.4	0.8	25.4
2851	Paints and allied products	-	61	30	3.6	53.0	2.1	3.9	25.8	158.4	186.2	342.6	6.1	4.5	119.4
286	Industrial organic chemicals	-	41	24	6.0	96.7	3.7	7.5	55.8	286.6	552.7	849.5	37.4	3.9	84.0
2865	Cyclic crudes and intermediates	-	14	9	1.6	23.8	1.0	2.2	14.1	110.8	178.2	288.6	(D)	1.8	50.3
2869	Industrial organic chemicals, n.e.c.	-	23	13	4.3	72.2	2.7	5.3	41.2	171.2	370.2	552.0	22.3	2.0	32.9
287	Agricultural chemicals	-	44	13	1.2	14.4	0.9	1.8	9.5	46.8	109.0	153.8	3.9	1.4	22.2
2875	Fertilizers, mixing only	-	28	8	0.7	7.9	0.5	1.1	4.4	26.2	73.4	99.5	2.1	0.3	6.1
2879	Agricultural chemicals, n.e.c.	-	12	2	0.3	4.4	0.2	0.4	3.7	13.0	20.5	32.8	1.1	0.8	11.1
289	Miscellaneous chemical products	-	153	49	4.5	56.1	2.9	5.4	31.9	159.6	168.6	330.2	12.1	5.0	110.9
2891	Adhesives and sealants	-	27	10	0.7	9.5	0.4	0.8	4.6	30.2	37.4	67.6	2.5	0.6	18.3
2892	Explosives	-	10	7	1.5	17.2	1.1	1.9	11.2	36.4	21.7	57.8	2.6	EE	(D)
2893	Printing ink	-	20	8	0.5	8.3	0.3	0.6	3.8	14.4	22.5	37.2	0.5	CC	(D)
2899	Chemical preparations, n.e.c.	-	96	24	1.8	21.1	1.1	2.0	12.3	78.5	86.9	167.7	6.5	2.2	55.9
29	**Petroleum and coal products**	-	**167**	**52**	**11.0**	**200.6**	**7.7**	**15.3**	**130.0**	**1 064.2**	**4 546.0**	**5 553.4**	**87.5**	**12.2**	**349.0**
2911	Petroleum refining	-	18	13	7.6	149.2	5.4	11.0	103.1	939.5	4 279.0	5 161.6	76.9	9.1	262.8
295	Paving and roofing materials	-	104	18	1.9	25.3	1.5	2.9	17.9	70.0	134.0	203.3	6.4	1.7	53.4
2951	Paving mixtures and blocks	-	92	13	1.1	14.2	0.9	1.6	9.9	33.7	78.7	112.1	3.8	1.1	30.2
2952	Asphalt felts and coatings	-	12	5	0.8	11.1	0.6	1.3	7.9	36.4	55.4	91.2	2.6	0.6	23.2
299	Miscellaneous petroleum and coal products	-	45	21	1.5	26.2	0.7	1.4	9.0	54.6	132.9	188.4	4.2	1.4	32.9
2992	Lubricating oils and greases	-	34	18	1.4	24.0	0.6	1.2	8.0	48.6	124.0	173.5	3.3	EE	(D)
2999	Petroleum and coal products, n.e.c.	E2	11	3	0.2	2.2	0.1	0.2	1.1	6.0	8.9	14.9	0.9	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
30	**Rubber and miscellaneous plastics products**	-	**570**	**275**	**37.9**	**457.0**	**29.6**	**58.0**	**318.8**	**1 023.5**	**1 131.2**	**2 133.0**	**75.5**	**35.2**	**651.5**
3011	Tires and inner tubes	-	13	8	7.1	109.6	5.7	11.3	83.7	271.8	345.4	599.4	10.8	FF	(D)
3021	Rubber and plastics footwear	E4	8	7	1.7	12.3	1.5	2.6	9.9	19.4	15.9	35.1	0.5	2.2	16.8
3041	Rubber and plastics hose and belting	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3069	Fabricated rubber products, n.e.c.	-	54	28	3.7	43.7	2.7	5.1	28.7	77.9	58.3	135.3	3.3	3.7	52.5
3079	Miscellaneous plastics products	-	490	230	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	21.2	331.0
31	**Leather and leather products**	-	**161**	**107**	**18.3**	**135.1**	**16.3**	**30.2**	**110.5**	**265.8**	**271.3**	**531.4**	**7.5**	**23.3**	**226.5**
3111	Leather tanning and finishing	-	19	12	1.4	17.0	1.2	2.5	13.9	52.2	58.5	110.4	(D)	1.6	25.4
3131	Boot and shoe cut stock and findings	E2	12	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	6.1
314	Footwear, except rubber	-	79	69	14.3	98.4	12.9	23.6	82.7	174.1	168.9	338.3	(D)	18.3	166.7
3142	House slippers	E1	9	5	0.9	6.2	0.8	1.3	4.8	8.9	8.1	16.9	0.1	CC	(D)
3143	Men's footwear, except athletic	-	18	17	4.1	30.5	3.8	7.5	26.8	57.8	72.3	127.4	1.0	FF	(D)
3144	Women's footwear, except athletic	-	28	25	4.9	33.2	4.4	7.7	27.1	57.6	47.8	104.6	1.2	9.5	78.7
3149	Footwear, except rubber, n.e.c.	-	24	22	4.4	28.5	3.8	7.1	24.0	49.9	40.7	89.4	(D)	4.7	36.2
3161	Luggage	-	13	7	0.9	7.4	0.8	1.5	5.0	14.9	17.5	32.5	(D)	1.0	9.0
317	Handbags and other personal leather goods	E4	14	6	0.9	6.4	0.8	1.4	4.6	12.1	9.0	20.7	(D)	1.3	12.4
3171	Women's handbags and purses	E6	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3172	Personal leather goods	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3199	Leather goods, n.e.c.	-	22	6	0.3	3.4	0.3	0.5	2.2	8.3	9.1	17.2	0.2	BB	(D)
32	**Stone, clay, and glass products**	-	**978**	**366**	**54.0**	**700.2**	**43.5**	**84.3**	**528.2**	**1 578.1**	**1 193.9**	**2 771.0**	**95.1**	**56.7**	**1 114.2**
3211	Flat glass	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
322	Glass and glassware, pressed or blown	-	45	30	14.9	188.6	13.1	24.8	157.9	427.1	241.2	669.5	27.2	15.2	298.7
3221	Glass containers	-	14	14	8.4	109.5	7.6	13.9	94.3	242.1	148.9	393.8	15.9	FF	(D)
3229	Pressed and blown glass, n.e.c.	-	31	16	6.5	79.2	5.6	10.9	63.6	185.0	92.3	275.7	11.3	FF	(D)
3231	Products of purchased glass	-	76	31	5.6	76.6	4.4	8.8	57.9	186.3	142.6	306.1	6.1	5.4	106.0
3241	Cement, hydraulic	-	16	15	2.8	45.3	2.3	4.3	36.2	104.6	104.1	212.5	3.6	3.3	103.8
325	Structural clay products	-	71	47	5.5	65.2	4.3	8.6	47.9	126.4	98.1	224.5	7.6	FF	(D)
3251	Brick and structural clay tile	-	25	14	1.3	11.7	1.0	1.9	9.0	25.8	18.4	45.3	2.5	EE	(D)
3253	Ceramic wall and floor tile	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3255	Clay refractories	-	33	23	2.3	31.3	1.8	3.5	22.1	59.8	57.8	116.3	3.7	FF	(D)
3259	Structural clay products, n.e.c.	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
326	Pottery and related products	-	46	17	4.9	55.0	3.9	7.3	40.1	99.4	33.7	132.4	3.5	5.0	67.4
3261	Vitreous plumbing fixtures	-	6	3	1.0	12.0	0.8	1.6	10.0	27.3	10.0	37.3	(D)	EE	(D)
3262	Vitreous china food utensils	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3264	Porcelain electrical supplies	-	7	6	1.2	15.6	1.0	1.9	11.1	27.9	9.2	37.4	1.8	1.4	18.7
3269	Pottery products, n.e.c.	-	25	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.7
327	Concrete, gypsum, and plaster products	E1	482	128	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.4	161.9
3271	Concrete block and brick	-	96	27	1.6	19.8	1.1	2.4	11.6	43.8	52.8	96.6	6.7	EE	(D)
3272	Concrete products, n.e.c.	E2	191	43	2.7	31.8	2.1	4.1	21.1	63.3	46.4	108.9	4.3	3.4	56.2
3273	Ready-mixed concrete	E1	185	51	2.8	36.2	2.0	4.0	24.7	77.3	114.7	191.8	8.1	2.6	55.9
3274	Lime	-	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3281	Cut stone and stone products	E2	43	5	0.5	4.8	0.4	0.9	3.7	8.7	4.3	13.0	0.3	CC	(D)
329	Miscellaneous nonmetallic mineral products	-	192	90	9.8	130.7	7.5	14.3	91.5	329.1	259.3	587.6	21.1	10.6	197.7
3291	Abrasive products	-	34	17	1.4	19.2	1.1	2.0	11.7	45.3	43.8	89.1	4.9	1.6	29.3
3292	Asbestos products	-	11	8	1.9	23.4	1.4	2.7	16.8	53.4	42.8	96.5	2.6	2.3	40.3
3293	Gaskets, packing, and sealing devices	-	23	10	0.8	10.9	0.6	1.1	6.4	20.6	14.7	35.9	1.0	1.9	29.6
3295	Minerals, ground or treated	-	49	21	1.2	15.1	0.9	1.8	11.3	40.2	28.0	67.7	3.9	1.1	25.9
3296	Mineral wool	-	14	9	1.7	23.0	1.3	2.5	17.0	69.2	43.0	112.9	(D)	EE	(D)
3297	Nonclay refractories	-	30	20	2.4	35.5	1.9	3.7	26.0	93.6	82.5	174.2	3.8	EE	(D)
3299	Nonmetallic mineral products, n.e.c.	E1	31	5	0.3	3.6	0.2	0.4	2.4	6.8	4.5	11.3	(D)	0.2	2.3

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
33	**Primary metal industries**	-	**598**	**355**	**181.2**	**3 185.7**	**142.6**	**270.6**	**2 401.0**	**5 750.8**	**9 812.5**	**15 504.3**	**500.6**	**194.9**	**3 897.2**
331	Blast furnace and basic steel products	-	143	101	135.0	2 541.0	106.3	200.0	1 932.2	4 491.0	7 912.6	12 345.4	389.5	148.6	2 970.8
3312	Blast furnaces and steel mills	-	69	49	120.7	2 310.2	95.2	178.3	1 757.4	3 979.9	7 094.6	11 037.4	341.3	134.1	2 638.8
3315	Steel wire and related products	-	25	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4	89.9
3316	Cold finishing of steel shapes	-	21	16	5.2	87.9	4.1	8.0	69.1	181.5	324.9	497.6	14.0	5.5	149.2
3317	Steel pipe and tubes	-	25	19	5.4	88.2	4.2	8.3	67.6	208.2	350.1	541.6	21.5	FF	(D)
332	Iron and steel foundries	-	143	106	21.6	306.9	17.5	33.5	232.9	507.0	415.6	924.5	43.3	19.7	266.0
3321	Gray iron foundries	-	91	66	8.5	113.6	7.2	13.5	88.5	198.9	208.1	407.9	17.2	7.5	112.8
3322	Malleable iron foundries	-	8	8	2.4	29.3	2.0	4.1	22.5	50.2	21.7	71.4	(D)	EE	(D)
3324	Steel investment foundries	-	5	4	0.3	3.2	0.3	0.5	2.5	5.6	3.5	9.1	(D)	EE	(D)
3325	Steel foundries, n.e.c.	-	39	28	10.3	160.8	8.1	15.4	119.3	252.4	182.3	436.2	24.1	8.2	104.6
333	Primary nonferrous metals	-	9	4	3.0	45.7	2.3	4.3	31.5	92.2	216.7	304.6	(D)	3.4	59.4
3333	Primary zinc	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3339	Primary nonferrous metals, n.e.c.	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3341	Secondary nonferrous metals	-	43	17	1.6	22.4	1.3	2.5	14.6	41.8	225.3	265.0	7.9	2.1	37.2
335	Nonferrous rolling and drawing	-	64	46	12.2	171.9	9.0	18.3	118 4	436.2	889.9	1 331.3	28.4	12.2	224.0
3351	Copper rolling and drawing	-	14	10	3.6	53.1	2.7	5.6	38.0	133.8	213.6	344.3	4.4	4.4	91.2
3353	Aluminum sheet, plate, and foil	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3354	Aluminum extruded products	-	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3356	Nonferrous rolling and drawing, n.e.c.	-	16	9	1.8	24.7	1.2	2.5	14.6	68.6	145.7	214.2	6.8	1.6	40.5
3357	Nonferrous wire drawing and insulating	-	21	17	3.5	44.4	2.6	5.0	30.3	90.0	179.7	273.0	4.8	2.7	31.9
336	Nonferrous foundries	-	119	54	5.9	72.8	4.9	9.0	55.1	124.6	95.7	219.3	5.4	7.2	106.8
3361	Aluminum foundries	-	67	32	3.5	45.0	3.1	5.5	35.6	81.8	50.5	131.7	2.9	3.5	56.9
3362	Brass, bronze, and copper foundries	-	42	19	2.2	25.9	1.7	3.1	17.9	39.7	42.7	82.0	2.3	3.4	47.4
3369	Nonferrous foundries, n.e.c.	E2	10	3	0.2	2.0	0.2	0.4	1.6	3.1	2.5	5.6	0.1	0.3	2.5
339	Miscellaneous primary metal products	E1	77	27	1.8	25.0	1.4	3.0	16.3	58.1	56.7	114.1	(D)	1.8	32.9
3398	Metal heat treating	E1	36	13	0.8	10.4	0.6	1.2	6.7	20.5	8.0	28.5	(D)	0.7	11.0
3399	Primary metal products, n.e.c.	E1	41	14	1.0	14.5	0.8	1.8	9.5	37.6	48.7	85.7	2.0	1.1	21.9
34	**Fabricated metal products**	-	**1 940**	**838**	**104.5**	**1 428.5**	**79.3**	**155.0**	**987.2**	**3 007.1**	**3 073.0**	**5 999.2**	**153.8**	**109.3**	**1 838.2**
341	Metal cans and shipping containers	-	33	25	4.2	68.4	3.6	7.4	57.6	184.4	300.2	478.1	2.9	5.8	113.8
3411	Metal cans	-	22	17	3.5	60.4	3.1	6.4	51.7	161.1	268.4	423.3	1.9	FF	(D)
3412	Metal barrels, drums, and pails	-	11	8	0.7	8.0	0.6	1.1	5.9	23.3	31.9	54.8	1.0	CC	(D)
342	Cutlery, hand tools, and hardware	-	117	54	7.4	81.5	6.0	11.7	59.4	174.6	123.1	298.9	6.2	7.6	116.6
3421	Cutlery	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	7.5
3423	Hand and edge tools, n.e.c.	-	42	19	3.1	36.6	2.4	4.7	26.2	74.0	51.6	128.5	2.8	2.9	52.3
3425	Hand saws and saw blades	-	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.6
3429	Hardware, n.e.c.	E1	62	28	3.1	33.5	2.5	4.8	24.0	77.5	58.3	135.9	2.8	3.8	54.1
343	Plumbing and heating, except electric	-	64	31	4.4	56.0	3.2	6.2	35.8	135.0	119.1	249.6	6.7	5.6	97.9
3432	Plumbing fittings and brass goods	-	12	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3433	Heating equipment, except electric	-	48	23	3.5	47.6	2.5	4.8	29.5	111.9	97.2	205.5	6.0	4.1	75.1
344	Fabricated structural metal products	-	782	317	34.1	453.7	24.1	46.4	285.1	951.4	1 121.2	2 018.9	37.3	34.6	559.6
3441	Fabricated structural metal	-	182	82	8.9	120.7	6.4	11.8	78.8	225.3	283.7	499.9	7.4	10.7	164.3
3442	Metal doors, sash, and trim	-	96	36	4.1	42.3	3.1	5.9	27.0	83.5	98.1	179.5	3.8	FF	(D)
3443	Fabricated plate work (boiler shops)	-	146	86	11.6	168.6	7.9	15.7	104.7	392.1	319.5	681.1	17.8	11.5	205.8
3444	Sheet metal work	-	198	65	5.4	68.5	3.8	7.3	42.0	145.1	281.7	416.9	5.4	4.8	74.8
3446	Architectural metal work	-	123	30	2.5	31.5	1.9	3.6	20.5	56.6	53.6	110.0	1.4	2.5	35.7
3448	Prefabricated metal buildings	-	16	7	0.8	9.4	0.6	1.2	6.1	20.9	32.5	53.2	0.5	BB	(D)
3449	Miscellaneous metal work	-	21	11	0.9	12.8	0.5	1.0	6.0	27.9	52.2	78.3	1.0	1.3	22.9
345	Screw machine products, bolts, etc.	-	120	60	9.0	125.9	7.2	14.0	94.4	257.8	208.4	455.0	26.8	7.4	121.4
3451	Screw machine products	-	68	27	1.9	22.7	1.5	2.9	16.0	45.6	29.9	74.4	10.3	1.4	19.6
3452	Bolts, nuts, rivets, and washers	-	52	33	7.2	103.2	5.7	11.1	78.4	212.1	178.5	380.6	16.5	5.9	101.9
346	Metal forgings and stampings	-	166	91	16.2	269.7	12.8	26.0	201.9	521.9	516.0	1 038.0	28.0	16.4	315.9
3462	Iron and steel forgings	-	29	21	3.7	53.9	2.8	5.4	36.7	111.1	108.0	216.7	8.3	FF	(D)
3463	Nonferrous forgings	-	4	4	0.7	10.7	0.6	1.0	8.5	21.1	27.6	47.5	(D)	CC	(D)
3465	Automotive stampings	-	13	11	6.0	132.2	4.8	10.6	104.4	225.6	207.7	439.2	5.1	FF	(D)
3466	Crowns and closures	-	7	6	1.3	18.5	1.1	2.1	14.5	53.0	62.5	115.5	(D)	1.3	29.5
3469	Metal stampings, n.e.c.	-	113	49	4.5	54.3	3.5	6.9	37.9	111.1	110.2	219.1	9.4	3.5	58.4

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
34	**Fabricated metal products**—Con.													
347	Metal services, n.e.c.	-	236	67	4.0	49.0	3.2	6.4	33.2	94.8	101.1	196.4	5.7	3.9	59.7
3471	Plating and polishing	-	141	37	2.1	23.3	1.7	3.3	15.5	41.1	27.9	68.7	2.5	1.9	24.5
3479	Metal coating and allied services	-	95	30	2.0	25.7	1.5	3.1	17.7	53.7	73.2	127.7	3.2	2.1	35.2
348	Ordnance and accessories, n.e.c.	-	20	10	2.9	32.6	2.4	4.4	24.5	55.4	64.9	121.3	3.1	5.8	67.4
3483	Ammunition, except for small arms, n.e.c.	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	41.0
3489	Ordnance and accessories, n.e.c.	-	11	4	1.6	19.4	1.4	2.6	15.1	32.4	42.3	75.1	(D)	EE	(D)
349	Miscellaneous fabricated metal products	-	402	183	22.3	291.6	16.9	32.5	195.2	631.7	519.1	1 142.9	37.1	22.1	383.8
3493	Steel springs, except wire	-	19	13	1.8	29.1	1.5	3.1	21.6	71.4	70.1	140.1	4.6	EE	(D)
3494	Valves and pipe fittings	-	75	46	9.1	120.7	6.6	12.3	77.7	264.8	183.1	446.7	16.3	10.0	180.9
3495	Wire springs	-	13	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	15.1
3496	Miscellaneous fabricated wire products	-	69	29	3.1	36.7	2.3	4.7	23.1	80.0	79.2	155.6	4.6	3.4	53.4
3498	Fabricated pipe and fittings	-	52	34	3.2	47.6	2.4	4.4	31.6	107.5	97.7	206.8	5.0	2.1	50.5
3499	Fabricated metal products, n.e.c.	-	172	51	4.0	44.6	3.2	6.3	31.5	83.8	67.3	148.1	5.6	3.8	50.1
35	**Machinery, except electrical**	-	**2 497**	**732**	**129.7**	**1 913.5**	**84.7**	**171.9**	**1 114.7**	**3 702.5**	**3 051.2**	**6 680.7**	**195.7**	**122.7**	**2 377.0**
351	Engines and turbines	-	16	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3511	Turbines and turbine generator sets	-	7	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3519	Internal combustion engines, n.e.c.	-	9	4	0.5	7.0	0.4	0.8	5.1	22.3	15.6	36.1	0.7	AA	(D)
352	Farm and garden machinery	-	46	7	5.0	86.8	2.6	5.6	40.4	165.4	119.4	270.5	7.4	FF	(D)
3523	Farm machinery and equipment	-	44	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
353	Construction and related machinery	-	163	100	23.3	344.0	15.3	29.6	216.9	733.4	726.0	1 447.6	49.6	20.2	453.5
3531	Construction machinery	-	38	25	8.2	125.8	6.0	11.1	86.2	243.4	259.9	505.7	(D)	6.3	170.1
3532	Mining machinery	-	38	23	5.8	83.2	3.6	7.1	53.8	197.0	250.5	430.6	8.7	FF	(D)
3533	Oil field machinery	-	10	8	2.3	34.5	1.4	2.8	19.9	62.2	46.0	116.7	9.5	EE	(D)
3534	Elevators and moving stairways	-	10	6	0.6	7.7	0.4	0.7	3.9	27.9	16.7	44.5	0.4	CC	(D)
3535	Conveyors and conveying equipment	-	35	21	3.7	53.3	2.1	4.1	25.8	118.9	71.0	185.7	4.4	3.6	62.6
3536	Hoists, cranes, and monorails	-	13	11	1.2	16.7	0.8	1.7	10.2	39.4	41.2	78.5	(D)	CC	(D)
3537	Industrial trucks and tractors	-	19	6	1.4	22.9	1.1	2.1	17.2	44.6	40.8	86.0	(D)	FF	(D)
354	Metalworking machinery	-	570	149	19.2	291.8	13.6	27.7	187.0	574.2	349.4	957.6	30.4	18.3	341.5
3541	Machine tools, metal cutting types	-	42	11	1.9	27.3	1.2	2.7	15.1	47.6	19.2	66.3	2.6	1.5	23.9
3542	Machine tools, metal forming types	-	19	7	0.9	15.8	0.6	1.4	9.1	36.5	24.1	58.9	1.7	1.2	17.1
3544	Special dies, tools, jigs, and fixtures	-	406	88	7.7	119.2	6.2	12.9	89.0	201.3	84.0	279.7	(D)	6.0	117.5
3545	Machine tool accessories	-	57	19	3.2	48.0	2.0	4.0	26.8	122.7	125.9	251.1	3.9	FF	(D)
3546	Power driven hand tools	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3547	Rolling mill machinery	-	15	9	2.9	47.6	1.9	3.6	26.2	96.6	59.4	190.6	5.5	FF	(D)
3549	Metalworking machinery, n.e.c.	-	28	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	19.5
355	Special industry machinery	-	220	90	11.9	164.2	7.7	15.3	93.6	313.8	285.2	589.9	10.1	FF	(D)
3551	Food products machinery	-	25	11	2.1	28.0	1.2	2.4	13.9	54.1	36.7	90.8	1.7	1.3	21.8
3552	Textile machinery	-	34	13	1.4	18.4	0.9	1.8	10.8	22.5	20.5	44.7	1.0	5.5	58.0
3553	Woodworking machinery	-	12	4	0.5	5.6	0.4	0.7	3.6	18.1	12.9	31.2	0.4	0.5	7.4
3554	Paper industries machinery	-	15	9	1.0	15.6	0.7	1.4	8.5	29.3	17.5	46.3	0.6	1.8	26.7
3555	Printing trades machinery	-	27	13	2.6	34.1	1.9	3.7	23.1	67.1	67.3	130.4	2.2	1.5	31.2
3559	Special industry machinery, n.e.c.	-	107	40	4.3	62.4	2.7	5.3	33.7	122.7	130.3	246.5	4.2	FF	(D)
356	General industrial machinery	-	342	139	27.8	401.4	18.5	37.2	244.0	885.1	659.8	1 516.6	44.1	25.3	487.4
3561	Pumps and pumping equipment	-	33	16	3.7	56.7	2.4	5.1	31.5	123.0	115.9	231.0	5.0	3.0	86.3
3562	Ball and roller bearings	-	18	11	3.7	54.9	3.0	6.0	42.7	116.3	93.2	205.0	(D)	4.8	91.2
3563	Air and gas compressors	-	14	11	5.2	78.2	3.0	6.4	42.1	210.3	120.9	327.6	9.7	FF	(D)
3564	Blowers and fans	-	25	13	1.6	21.9	0.9	1.7	11.6	57.4	71.2	128.7	1.9	1.0	26.9
3565	Industrial patterns	E2	82	9	0.7	8.7	0.6	1.1	7.0	12.8	4.0	16.5	0.4	0.6	9.9
3566	Speed changers, drives, and gears	-	21	14	2.4	37.6	1.7	3.5	24.5	78.4	50.4	128.7	5.0	2.7	46.6
3567	Industrial furnaces and ovens	-	34	19	3.1	42.1	1.9	3.3	23.2	92.9	62.6	146.2	(D)	3.1	46.9
3568	Power transmission equipment, n.e.c.	-	17	11	3.2	42.1	2.3	4.5	27.1	82.6	51.8	136.2	4.3	EE	(D)
3569	General industrial machinery, n.e.c.	-	98	35	4.3	59.2	2.7	5.6	34.3	111.2	89.7	196.9	6.4	3.4	59.0
357	Office and computing machines	-	45	26	8.0	111.9	3.6	6.6	40.0	202.6	163.4	351.1	13.3	FF	(D)
3573	Electronic computing equipment	-	35	18	5.7	82.9	2.0	3.9	22.6	154.4	97.1	238.5	11.0	3.0	56.7
3574	Calculating and accounting machines	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
35	**Machinery, except electrical**—Con.														
357	Office and computing machines—Con.														
3579	Office machines, n.e.c. and typewriters	–	6	5	1.0	14.3	0.6	1.1	6.6	26.4	15.1	41.3	0.7	CC	(D)
358	Refrigeration and service machinery	–	107	53	10.5	151.2	6.8	17.3	76.2	233.3	289.6	514.7	12.4	10.5	163.7
3581	Automatic merchandising machines	–	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3585	Refrigeration and heating equipment	–	53	32	7.4	112.4	4.8	13.4	54.3	151.8	204.1	350.3	10.0	8.1	118.9
3586	Measuring and dispensing pumps	–	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3589	Service industry machinery, n.e.c.	–	42	17	2.3	26.9	1.4	2.8	15.5	56.4	63.8	117.8	1.8	1.6	32.4
359	Miscellaneous machinery, except electrical	E1	988	160	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.3	158.1
3592	Carburetors, pistons, rings, and valves	–	7	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	13.3
3599	Machinery, except electrical, n.e.c.	E1	981	158	10.6	138.9	8.5	16.5	97.1	249.3	134.5	381.5	15.1	9.4	144.8
36	**Electric and electronic equipment**	–	**776**	**382**	**103.9**	**1 319.9**	**77.8**	**149.0**	**857.2**	**2 920.2**	**2 225.8**	**5 116.1**	**161.1**	**116.5**	**2 202.9**
361	Electric distributing equipment	–	48	21	19.0	290.0	13.3	25.2	190.8	618.4	310.6	927.2	15.0	26.4	496.2
3612	Transformers	–	16	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.5	147.2
3613	Switchgear and switchboard apparatus	–	32	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.9	349.1
362	Electrical industrial apparatus	–	112	67	12.8	165.8	8.9	17.0	96.0	373.2	242.4	601.8	18.7	12.2	213.6
3621	Motors and generators	–	28	23	5.2	68.7	3.6	6.7	37.3	167.4	94.8	256.4	8.0	5.0	89.6
3622	Industrial controls	–	50	23	2.2	25.9	1.5	3.0	13.9	59.1	35.9	91.1	2.4	1.5	21.1
3623	Welding apparatus, electric	–	8	5	1.5	20.9	1.1	1.8	13.1	52.1	57.3	109.4	(D)	1.5	34.4
3624	Carbon and graphite products	–	10	7	3.2	40.7	2.3	4.4	25.6	75.4	44.0	115.9	(D)	3.3	53.2
3629	Electrical industrial apparatus, n.e.c.	E1	16	9	0.7	9.7	0.5	1.1	6.0	19.1	10.3	29.1	0.6	0.9	15.4
363	Household appliances	–	21	8	4.6	48.8	3.8	7.2	34.9	129.2	121.9	254.9	7.5	FF	(D)
3631	Household cooking equipment	–	4	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3634	Electric housewares and fans	–	11	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
364	Electric lighting and wiring equipment	–	171	84	13.9	150.7	11.0	20.7	102.5	367.2	351.2	719.6	10.4	15.3	305.4
3641	Electric lamps	–	22	10	3.5	38.6	3.2	6.1	32.9	120.6	64.0	187.6	1.4	FF	(D)
3643	Current-carrying wiring devices	–	31	19	3.0	32.3	2.4	4.8	22.6	78.7	66.9	143.5	2.3	4.4	75.9
3644	Noncurrent-carrying wiring devices	–	22	16	2.0	23.5	1.6	3.0	17.1	48.8	63.5	112.4	1.7	EE	(D)
3645	Residential lighting fixtures	–	62	24	3.8	39.5	2.6	4.4	18.9	81.9	80.2	162.3	1.8	4.2	73.6
3646	Commercial lighting fixtures	–	18	8	1.3	12.9	1.0	1.8	8.3	30.1	62.9	93.5	1.6	EE	(D)
3648	Lighting equipment, n.e.c.	–	14	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.8
365	Radio and TV receiving equipment	–	33	13	4.2	33.6	3.8	7.1	29.0	55.5	120.2	176.4	6.2	FF	(D)
3651	Radio and TV receiving sets	–	14	8	3.5	27.6	3.3	6.0	24.2	45.7	111.3	157.8	(D)	FF	(D)
3652	Phonograph records and prerecorded tape	–	19	5	0.6	6.0	0.5	1.1	4.8	9.7	8.9	18.6	(D)	CC	(D)
366	Communication equipment	–	100	41	7.5	96.1	4.2	8.0	45.1	201.3	127.4	325.1	10.6	15.1	245.9
3661	Telephone and telegraph apparatus	–	11	4	0.6	6.8	0.3	0.6	2.6	16.2	13.1	30.9	0.5	BB	(D)
3662	Radio and TV communication equipment	–	89	37	6.8	89.4	3.9	7.5	42.5	185.1	114.3	294.2	10.1	FF	(D)
367	Electronic components and accessories	–	225	111	35.3	451.4	27.4	52.9	298.6	979.4	702.6	1 675.5	62.3	31.5	589.0
3671	Electron tubes, all types	–	14	10	6.4	85.2	4.9	9.1	53.2	146.4	126.1	272.5	7.6	EE	(D)
3674	Semiconductors and related devices	–	31	16	10.6	162.2	8.0	15.4	107.9	359.9	157.0	514.8	36.6	10.3	205.3
3675	Electronic capacitors	–	8	7	1.7	15.7	1.2	2.6	10.4	23.6	15.1	38.9	(D)	1.8	15.9
3676	Electronic resistors	–	11	8	2.7	31.0	2.3	4.5	24.2	57.4	36.7	93.8	2.6	FF	(D)
3677	Electronic coils and transformers	–	14	10	1.8	15.3	1.6	3.3	11.1	25.9	10.3	35.1	1.1	1.3	19.6
3678	Electronic connectors	–	16	14	4.0	52.3	3.2	6.3	34.2	193.2	96.2	286.3	(D)	EE	(D)
3679	Electronic components, n.e.c.	–	131	46	8.0	89.6	6.2	11.7	57.5	173.1	261.2	434.2	7.4	5.4	78.6
369	Miscellaneous electrical equipment and supplies	–	66	37	6.6	83.6	5.3	10.9	60.4	196.0	249.6	435.4	30.3	5.1	114.4
3691	Storage batteries	–	16	13	3.4	49.7	2.8	6.1	39.3	127.6	180.0	303.6	27.2	3.0	83.2
3692	Primary batteries, dry and wet	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3693	X-ray, electromedical, and electrotheraputic apparatus	–	6	5	0.8	11.7	0.5	1.0	5.4	23.0	16.8	36.2	1.6	(NA)	(NA)
3694	Engine electrical equipment	–	22	11	1.6	15.2	1.4	2.7	11.3	29.8	37.9	65.1	(D)	1.0	14.3
3699	Electrical equipment and supplies, n.e.c.	E2	18	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
37	**Transportation equipment**	–	**341**	**154**	**70.2**	**1 118.7**	**49.6**	**98.0**	**706.2**	**2 228.6**	**2 562.0**	**4 700.8**	**195.0**	**68.2**	**1 354.6**
371	Motor vehicles and equipment	–	187	79	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3711	Motor vehicles and car bodies	–	12	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3713	Truck and bus bodies	–	52	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories	–	95	29	8.8	146.9	7.4	15.4	117.9	297.7	318.9	612.7	10.7	8.2	176.5
3715	Truck trailers	–	25	20	4.1	50.7	3.2	6.6	37.3	87.7	229.4	316.1	2.9	FF	(D)
3716	Motor homes produced on purchased chassis	–	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts	–	30	19	11.7	187.0	7.4	15.3	106.3	336.8	223.3	564.9	(D)	11.3	228.7
3721	Aircraft	–	4	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3724	Aircraft engines and engine parts	–	14	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3728	Aircraft equipment, n.e.c.	–	12	7	0.9	14.1	0.6	1.3	9.2	25.2	8.5	33.2	0.9	1.1	17.8
373	Ship and boat building and repairing	–	31	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.4	109.3
3731	Ship building and repairing	–	13	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.4	98.2
3732	Boat building and repairing	E1	18	4	0.3	3.2	0.3	0.5	1.9	5.2	5.6	11.0	0.2	1.1	11.2
3743	Railroad equipment	–	31	20	18.7	288.8	13.8	24.7	194.8	616.2	694.4	1 275.2	(D)	FF	(D)
3751	Motorcycles, bicycles, and parts	–	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
376	Guided missiles, space vehicles, parts	–	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3761	Guided missiles and space vehicles	–	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3769	Space vehicle equipment, n.e.c.	–	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
379	Miscellaneous transportation equipment	–	52	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3792	Travel trailers and campers	–	34	15	1.4	12.7	1.2	2.2	9.5	30.7	56.1	86.6	0.9	EE	(D)
3795	Tanks and tank components	–	3	3	2.4	32.5	2.0	4.0	26.7	93.6	103.1	157.5	(D)	EE	(D)
3799	Transportation equipment, n.e.c.	–	15	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	19.2
38	**Instruments and related products**	–	**410**	**154**	**38.0**	**510.3**	**23.6**	**47.2**	**264.9**	**1 151.5**	**580.5**	**1 696.7**	**46.5**	**32.7**	**601.5**
3811	Engineering and scientific instruments	–	47	17	2.4	28.8	1.4	3.0	15.7	78.6	37.8	113.8	2.6	2.0	38.8
382	Measuring and controlling devices	–	136	62	20.3	285.4	12.5	24.9	145.7	600.9	254.8	837.6	17.9	17.8	337.4
3822	Environmental controls	–	15	6	2.1	20.8	1.7	2.8	15.2	33.2	16.8	51.0	0.4	FF	(D)
3823	Process control instruments	–	28	17	10.1	161.5	4.7	10.0	61.8	330.2	123.5	442.0	10.3	8.9	170.8
3824	Fluid meters and counting devices	–	8	7	3.3	41.3	2.4	4.7	26.5	113.1	61.1	174.6	4.4	EE	(D)
3825	Instruments to measure electricity	–	38	13	1.6	19.0	1.1	2.1	11.0	37.5	17.3	52.5	1.0	2.0	32.8
3829	Measuring and controlling devices, n.e.c.	–	47	19	3.2	42.8	2.5	5.3	31.1	86.9	36.2	117.4	1.8	2.1	39.4
3832	Optical instruments and lenses	–	28	13	1.5	21.3	1.1	2.5	13.3	53.5	26.6	77.4	(D)	0.9	19.4
384	Medical instruments and supplies	–	126	45	10.8	136.2	6.6	12.9	68.7	285.1	190.8	461.6	12.7	9.3	158.2
3841	Surgical and medical instruments	–	36	17	3.8	53.7	2.0	4.0	23.0	117.2	79.0	193.5	5.0	1.3	15.4
3842	Surgical appliances and supplies	E1	65	18	4.9	58.9	3.2	6.3	32.7	122.8	84.1	196.8	6.6	6.3	107.1
3843	Dental equipment and supplies	–	25	10	2.1	23.6	1.4	2.7	13.1	45.1	27.7	71.3	1.1	1.8	35.7
3851	Ophthalmic goods	–	31	2	0.6	7.7	0.5	1.0	5.1	15.5	5.9	21.2	0.8	CC	(D)
3861	Photographic equipment and supplies	–	30	7	1.2	19.1	0.8	1.5	10.1	101.4	40.4	141.4	2.4	CC	(D)
3873	Watches, clocks, and watchcases	–	12	8	1.1	11.9	0.8	1.4	6.3	16.5	24.2	43.6	(D)	0.7	9.2
39	**Miscellaneous manufacturing industries**	–	**667**	**173**	**25.3**	**302.4**	**19.3**	**36.3**	**192.5**	**746.4**	**661.5**	**1 397.0**	**44.2**	**31.0**	**544.2**
391	Jewelry, silverware, and plated ware	E1	84	12	0.9	9.6	0.7	1.3	5.9	22.1	32.2	53.7	0.4	EE	(D)
3911	Jewelry, precious metal	E3	64	7	0.5	5.5	0.4	0.7	3.1	11.0	16.0	26.8	0.2	0.4	6.9
3914	Silverware and plated ware	E1	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3915	Jewelers' materials and lapidary work	–	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3931	Musical instruments	–	20	6	1.0	12.2	0.8	1.6	7.9	19.9	13.5	32.9	0.9	CC	(D)
394	Toys and sporting goods	–	105	32	3.5	32.3	2.8	5.3	22.7	98.6	94.8	191.0	3.8	8.7	115.7
3944	Games, toys, and children's vehicles	–	34	10	1.6	15.0	1.3	2.5	10.3	60.9	48.4	107.7	1.6	FF	(D)
3949	Sporting and athletic goods, n.e.c.	–	63	20	1.8	16.9	1.5	2.8	12.1	36.9	45.4	81.6	2.2	5.3	78.0

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
39	**Miscellaneous manufacturing industries**—Con.														
395	Pens, pencils, office and art supplies	-	51	17	2.8	27.4	2.1	4.0	17.5	63.8	41.6	104.0	5.7	2.8	39.6
3951	Pens and mechanical pencils	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3952	Lead pencils and art goods	-	7	6	1.5	14.4	1.2	2.4	9.7	39.9	18.0	57.0	(D)	EE	(D)
3953	Marking devices	-	33	6	0.6	7.0	0.4	0.8	3.6	11.8	8.5	20.2	0.3	0.8	10.4
3955	Carbon paper and inked ribbons	E1	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
396	Costume jewelry and notions	-	35	15	3.1	32.6	2.2	4.1	19.5	48.9	48.5	99.6	2.1	3.0	30.5
3961	Costume jewelry	-	10	3	0.3	2.0	0.3	0.4	1.3	3.8	3.2	7.0	(D)	AA	(D)
3962	Artificial flowers	-	16	6	0.7	6.3	0.6	1.0	4.3	12.2	15.4	29.4	(D)	0.9	11.0
3964	Needles, pins, and fasteners	-	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
399	Miscellaneous manufactures	-	372	91	14.0	188.4	10.7	20.0	119.0	493.2	430.9	915.7	31.3	14.3	325.6
3991	Brooms and brushes	-	22	10	0.8	8.1	0.5	0.9	3.5	12.9	13.2	25.5	0.4	0.6	7.1
3993	Signs and advertising displays	E1	163	25	1.9	23.0	1.4	2.6	13.8	39.0	25.6	65.1	1.5	2.0	31.8
3995	Burial caskets	-	23	12	1.8	17.8	1.5	2.7	13.2	31.0	26.3	56.7	(D)	EE	(D)
3996	Hard surface floor coverings	-	3	3	4.4	66.6	3.4	7.3	50.8	237.5	210.3	439.4	(D)	FF	(D)
3999	Manufacturing industries, n.e.c.	-	161	41	5.2	73.0	3.9	6.6	37.7	172.8	155.4	329.1	13.6	5.8	104.9
--	**Administrative and auxiliary**	-	**546**	**326**	**87.3**	**1 733.9**	-	-	-	-	-	-	-	**(NA)**	**(NA)**

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md., SCSA	-	**8 964**	**3 306**	**550.5**	**8 072.4**	**343.8**	**667.7**	**4 192.6**	**15 796.6**	**22 402.4**	**38 008.3**	**921.5**	**597.8**	**11 008.5**
20	Food and kindred products	-	567	256	41.5	554.3	29.1	57.4	346.8	1 542.4	2 995.6	4 528.2	(D)	43.9	997.5
201	Meat products	E1	113	52	7.9	109.0	6.1	12.2	76.1	254.6	1 049.7	1 299.4	24.9	(NA)	(NA)
2017	Poultry and egg processing	-	5	5	0.9	9.4	0.7	1.5	6.5	23.6	89.4	113.0	2.3	(NA)	(NA)
203	Preserved fruits and vegetables	-	59	29	6.3	74.8	4.9	9.2	50.9	227.1	334.2	561.6	11.7	(NA)	(NA)
204	Grain mill products	-	24	7	0.9	12.3	0.7	1.3	8.3	58.8	105.1	164.9	(D)	(NA)	(NA)
2052	Cookies and crackers	-	17	5	2.9	41.8	2.5	5.3	35.2	136.2	88.2	224.6	(D)	(NA)	(NA)
2087	Flavoring extracts and sirups, n.e.c.	E2	13	6	0.5	7.0	0.3	0.7	4.0	24.8	27.1	51.1	(D)	(NA)	(NA)
2231	Weaving and finishing mills, wool	E4	9	4	0.3	2.1	0.2	0.3	1.5	3.1	1.4	4.5	0.1	(NA)	(NA)
2241	Narrow fabric mills	E1	10	5	0.3	2.7	0.3	0.6	2.1	5.7	5.2	10.8	0.2	(NA)	(NA)
2258	Warp knit fabric mills	-	12	6	0.5	6.1	0.5	0.9	4.5	13.2	16.4	29.5	0.5	(NA)	(NA)
228	Yarn and thread mills	E1	28	23	1.9	15.3	1.7	3.3	12.3	26.9	38.0	64.8	1.5	(NA)	(NA)
2281	Yarn mills, except wool	E4	8	5	0.6	5.3	0.6	1.1	4.4	11.3	15.4	26.3	(D)	(NA)	(NA)
2282	Throwing and winding mills	-	8	8	0.6	4.5	0.5	1.1	3.8	5.8	7.7	13.7	0.1	(NA)	(NA)
2283	Wool yarn mills	-	8	7	0.3	3.1	0.3	0.6	2.4	4.8	6.7	11.4	(D)	(NA)	(NA)
2284	Thread mills	-	4	3	0.3	2.4	0.3	0.5	1.8	5.0	8.2	13.4	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia-Wilmington-Trenton, Pa-Del.-N.J.-Md., SCSA—Con.														
23	Apparel and other textile products	-	663	348	35.5	288.1	30.4	52.8	211.9	578.2	571.3	1 127.6	(D)	48.6	490.2
234	Women's and children's undergarments	-	11	8	0.8	5.4	0.7	1.3	3.8	11.9	11.1	23.4	0.1	(NA)	(NA)
2363	Children's coats and suits	-	5	4	0.4	3.3	0.4	0.7	2.8	6.7	2.0	8.7	(D)	(NA)	(NA)
2369	Children's outerwear, n.e.c.	-	7	7	0.7	5.2	0.5	0.8	4.0	4.2	5.5	12.3	(D)	(NA)	(NA)
2395	Pleating and stitching	E1	17	3	0.3	2.6	0.3	0.3	1.7	4.8	2.2	7.0	(D)	(NA)	(NA)
2514	Metal household furniture	E1	19	12	1.6	14.5	1.3	2.6	10.4	21.5	33.7	58.5	0.2	(NA)	(NA)
252	Office furniture	-	17	7	1.6	20.9	1.3	2.4	14.1	42.8	32.7	74.6	1.2	(NA)	(NA)
26	Paper and allied products	-	266	150	18.9	263.9	14.6	28.2	181.9	660.6	849.8	1 504.6	38.7	21.2	419.1
2643	Bags, except textile bags	E3	15	6	1.3	16.9	0.9	1.9	10.7	36.8	52.6	88.9	1.8	(NA)	(NA)
2648	Stationery products	-	11	2	0.3	3.3	0.3	0.5	2.6	6.3	7.2	[illegible]	(D)	(NA)	(NA)
2649	Converted paper products, n.e.c.	-	30	13	0.9	10.2	0.6	1.2	6.0	25.5	30.3	55.5	1.9	(NA)	(NA)
2652	Setup paperboard boxes	-	11	10	0.6	6.2	0.6	1.0	4.7	9.2	8.7	17.7	0.7	(NA)	(NA)
2654	Sanitary food containers	-	8	5	0.5	5.7	0.4	0.7	4.1	9.5	40.3	49.8	0.8	(NA)	(NA)
27	Printing and publishing	-	1 324	289	41.4	537.8	24.1	43.3	291.8	1 186.5	685.0	1 872.9	57.4	41.0	743.0
2721	Periodicals	-	62	15	3.5	41.9	0.7	1.2	6.2	251.4	153.8	405.0	1.1	(NA)	(NA)
2752	Commercial printing, lithographic	E1	322	78	6.6	97.1	4.9	9.1	66.1	156.9	116.0	277.8	7.1	(NA)	(NA)
279	Printing trade services	-	115	29	3.2	45.1	2.5	4.6	33.2	73.7	17.1	90.4	3.8	(NA)	(NA)
28	Chemicals and allied products	-	421	197	42.5	747.6	26.1	51.6	397.4	2 684.0	2 619.3	5 288.0	(D)	44.8	1 728.3
289	Miscellaneous chemical products	-	110	42	3.5	43.8	2.1	4.1	22.5	114.7	129.6	239.8	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	343	163	21.9	291.2	16.8	33.0	200.1	630.3	722.9	1 337.5	39.0	23.6	472.2
3011	Tires and inner tubes	-	5	3	5.2	83.3	4.2	8.2	65.6	208.5	280.7	470.5	7.7	(NA)	(NA)
3079	Miscellaneous plastics products	-	287	129	12.4	152.3	9.4	18.5	98.1	333.2	348.5	682.3	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	381	145	16.8	220.2	13.1	25.9	157.3	488.4	436.9	928.5	30.7	19.6	376.2
3272	Concrete products, n.e.c.	E2	61	22	1.1	13.7	0.9	1.7	9.2	27.7	18.0	46.1	1.3	(NA)	(NA)
3317	Steel pipe and tubes	-	10	8	1.5	20.9	1.1	2.2	15.1	26.4	28.3	56.0	1.2	(NA)	(NA)
339	Miscellaneous primary metal products	-	35	15	1.1	17.4	0.8	1.6	11.1	50.5	40.7	90.0	2.9	(NA)	(NA)
3398	Metal heat treating	-	19	9	0.5	6.0	0.4	0.7	4.0	11.3	3.8	15.1	(D)	(NA)	(NA)
3399	Primary metal products, n.e.c.	-	16	6	0.7	11.3	0.5	0.9	7.1	39.2	36.9	74.9	(D)	(NA)	(NA)
341	Metal cans and shipping containers	-	18	16	3.1	49.0	2.7	5.3	41.0	134.9	205.6	335.6	3.7	(NA)	(NA)
3411	Metal cans	-	13	12	2.6	42.7	2.3	4.6	36.6	119.8	180.7	296.1	(D)	(NA)	(NA)
3412	Metal barrels, drums, and pails	-	5	4	0.5	6.3	0.4	0.7	4.4	15.1	24.9	39.5	(D)	(NA)	(NA)
3433	Heating equipment, except electric	-	17	7	0.9	11.1	0.5	1.0	5.6	21.6	24.9	46.6	1.0	(NA)	(NA)
3444	Sheet metal work	-	122	35	3.3	38.4	2.4	4.5	25.1	68.8	80.8	148.7	3.7	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers	-	26	17	3.0	40.4	2.4	4.9	31.2	90.3	59.0	147.9	(D)	(NA)	(NA)
3495	Wire springs	-	9	6	0.5	5.2	0.4	0.8	3.8	8.5	9.9	18.3	0.7	(NA)	(NA)
35	Machinery, except electrical	-	1 294	333	51.4	751.3	32.3	68.7	419.1	1 355.6	1 127.3	2 463.7	(D)	51.7	1 015.9
3535	Conveyors and conveying equipment	-	19	10	1.5	22.2	0.9	1.6	10.6	48.3	35.3	81.5	0.7	(NA)	(NA)
354	Metalworking machinery	E1	279	49	4.7	75.4	3.6	7.7	54.3	130.5	59.2	187.2	(D)	(NA)	(NA)
3542	Machine tools, metal forming types	-	12	4	0.6	10.5	0.4	0.9	6.4	22.1	15.0	36.4	1.2	(NA)	(NA)
3551	Food products machinery	-	16	7	0.5	7.3	0.3	0.6	3.5	13.9	9.8	24.0	0.3	(NA)	(NA)
3554	Paper industries machinery	-	15	7	1.3	20.5	0.7	1.5	10.7	35.2	24.1	58.7	1.4	(NA)	(NA)
3585	Refrigeration and heating equipment	-	33	18	4.1	45.4	2.9	9.5	29.0	91.6	99.0	188.0	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	494	68	5.5	72.1	4.4	8.6	50.2	129.5	71.5	199.2	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	475	199	41.2	557.8	29.2	55.2	340.5	1 076.6	978.7	2 029.3	46.1	55.9	978.4
3612	Transformers	-	9	3	0.4	3.9	0.3	0.6	2.8	7.9	7.0	14.9	0.1	(NA)	(NA)
364	Electric lighting and wiring equipment	-	97	45	7.6	80.8	5.6	10.3	47.7	184.5	207.3	383.5	(D)	(NA)	(NA)
3644	Noncurrent-carrying wiring devices	E1	10	7	0.8	10.7	0.7	1.2	6.9	24.0	30.8	53.7	0.6	(NA)	(NA)
3646	Commercial lighting fixtures	-	11	5	1.3	13.1	1.0	1.7	8.4	32.9	69.5	101.2	1.5	(NA)	(NA)
3676	Electronic resistors	-	7	4	0.8	7.7	0.7	1.3	5.7	15.3	5.3	21.3	0.7	(NA)	(NA)
3678	Electronic connectors	-	5	3	0.3	2.7	0.2	0.4	1.8	5.9	4.2	10.3	(D)	(NA)	(NA)
3724	Aircraft engines and engine parts	-	8	4	0.4	6.3	0.3	0.6	3.8	11.6	6.8	18.1	0.6	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md., SCSA—Con.													
3991	Brooms and brushes	-	11	5	0.4	4.3	0.2	0.4	1.7	5.3	5.8	10.5	0.1	(NA)	(NA)
	Allentown-Bethlehem-Easton, Pa.-N.J., SMSA	-	**1 183**	**621**	**106.8**	**1 430.8**	**75.8**	**140.9**	**853.3**	**2 731.8**	**3 105.1**	**5 828.2**	**172.8**	**110.4**	**1 805.6**
20	Food and kindred products	-	77	25	6.2	88.7	4.3	8.2	56.8	305.0	707.1	1 014.7	10.8	6.0	137.4
202	Dairy products	-	15	4	0.7	8.5	0.4	0.9	5.5	13.8	75.7	88.9	0.7	0.9	7.0
205	Bakery products	E1	13	1	0.3	4.3	0.2	0.3	2.3	8.2	7.2	15.4	0.2	0.7	10.3
22	Textile mill products	-	76	51	5.2	48.7	4.5	8.8	36.8	104.0	137.4	241.8	7.6	6.6	102.8
225	Knitting mills	E1	47	34	3.9	36.2	3.3	6.3	26.7	82.8	106.4	189.5	7.1	4.5	68.0
228	Yarn and thread mills	-	5	4	0.5	3.7	0.4	0.9	3.0	5.0	10.4	15.7	(D)	0.6	4.8
23	Apparel and other textile products	-	345	262	24.3	163.9	22.0	36.4	135.6	253.5	154.0	404.6	6.1	24.2	186.2
232	Men's and boys' furnishings	-	24	15	1.9	13.5	1.8	3.0	11.5	17.4	6.1	24.3	(D)	2.9	22.0
2321	Men's and boys' shirts and nightwear	E1	11	6	0.5	3.7	0.5	0.8	3.1	4.8	2.5	8.1	(D)	1.2	10.8
2327	Men's and boys' separate trousers	-	8	7	1.2	8.5	1.1	1.9	7.7	11.3	2.4	13.7	(D)	0.8	5.6
2331	Women's and misses' blouses and waists	-	162	142	10.3	65.0	9.6	15.9	57.3	81.2	26.8	108.4	2.5	8.1	49.6
2335	Women's and misses' dresses	E4	44	25	1.8	10.7	1.7	2.5	9.4	16.4	4.9	21.2	0.4	2.8	18.4
2337	Women's and misses' suits and coats	-	14	9	0.9	6.6	0.8	1.3	4.9	20.3	10.4	30.5	(D)	0.5	3.7
2339	Women's and misses' outerwear, n.e.c.	E1	37	29	2.9	18.7	2.7	4.4	15.9	26.7	9.2	35.9	0.6	2.5	16.4
238	Miscellaneous apparel and accessories	-	7	5	0.8	4.4	0.7	1.2	3.7	13.0	17.7	30.3	(D)	0.7	4.0
239	Miscellaneous fabricated textile products	-	18	8	1.2	10.4	0.9	1.5	6.7	18.5	22.4	39.2	(D)	1.8	19.8
2392	House furnishings, n.e.c.	-	8	5	0.9	7.4	0.7	1.2	4.6	14.1	17.2	29.6	0.1	1.1	12.7
24	Lumber and wood products	E1	27	4	0.4	3.0	0.3	0.5	2.2	7.4	10.7	18.0	1.5	0.4	5.3
25	Furniture and fixtures	-	32	13	0.9	10.5	0.8	1.4	6.6	22.8	13.4	35.4	1.4	1.0	12.7
251	Household furniture	E1	16	6	0.3	2.9	0.3	0.6	2.3	5.6	4.1	9.3	0.2	0.3	3.4
254	Partitions and fixtures	-	7	3	0.3	4.7	0.2	0.4	2.5	12.0	5.5	17.4	(D)	0.3	5.1
26	Paper and allied products	-	21	17	2.0	24.7	1.6	3.1	17.9	65.5	76.2	140.3	3.0	3.0	52.2
264	Miscellaneous converted paper products	-	7	5	0.7	9.7	0.6	1.3	7.1	35.9	35.2	70.9	(D)	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	6	4	0.4	5.6	0.3	0.5	3.2	8.7	20.0	28.8	1.2	(NA)	(NA)
27	Printing and publishing	E1	109	26	4.1	49.7	2.2	3.9	24.7	114.4	61.9	175.7	3.3	3.9	58.9
2711	Newspapers	-	12	7	1.4	17.8	0.4	0.8	4.9	39.1	16.2	55.3	1.1	1.5	25.8
273	Books	E6	6	3	0.3	3.2	0.2	0.4	2.2	6.7	2.7	9.4	0.3	(NA)	(NA)
275	Commercial printing	E1	69	11	1.4	18.9	1.1	2.0	14.7	30.6	14.7	45.2	1.0	1.8	23.8
2752	Commercial printing, lithographic	E1	33	10	1.2	16.8	1.0	1.8	12.9	26.6	12.5	39.0	1.0	1.3	16.7
28	Chemicals and allied products	-	41	18	3.3	50.1	2.1	4.6	28.5	152.4	148.0	310.4	26.2	3.3	87.5
281	Industrial inorganic chemicals	-	11	7	1.8	26.2	1.1	2.2	14.6	93.3	75.1	165.9	(D)	2.0	63.9
2819	Industrial inorganic chemicals, n.e.c.	-	4	2	0.9	13.1	0.4	1.0	6.5	30.5	27.9	57.3	(D)	0.9	21.0
30	Rubber and miscellaneous plastics products	-	30	20	2.7	30.3	2.2	4.1	21.9	82.2	103.4	186.5	8.7	2.8	55.8
32	Stone, clay, and glass products	-	68	29	2.8	39.7	2.3	4.3	29.8	85.1	80.0	165.6	8.2	3.0	75.2
3241	Cement, hydraulic	-	8	8	1.5	24.8	1.2	2.3	19.3	48.9	47.5	97.8	1.6	1.8	56.3
327	Concrete, gypsum, and plaster products	E1	28	9	0.4	4.1	0.3	0.4	2.4	8.7	11.1	19.6	0.8	0.5	8.4
329	Miscellaneous nonmetallic mineral products	-	14	7	0.5	7.4	0.4	0.8	5.4	21.6	19.4	40.4	5.1	0.4	7.8
33	Primary metal industries	-	28	18	15.0	261.0	11.4	20.6	187.7	465.6	476.4	928.8	44.5	17.5	357.2
336	Nonferrous foundries	-	5	4	0.4	4.5	0.4	0.7	3.6	8.1	8.1	16.1	(D)	0.3	3.6
344	Fabricated structural metal products	-	43	13	2.7	37.0	1.9	3.5	24.3	64.9	76.4	143.9	5.1	2.4	31.4
3443	Fabricated plate work (boiler shops)	E1	14	6	1.3	17.3	0.8	1.6	11.1	34.4	27.3	58.3	(D)	0.7	13.0
349	Miscellaneous fabricated metal products	-	15	8	1.1	15.0	0.8	1.6	10.1	32.2	29.9	63.5	0.9	1.2	21.2
3499	Fabricated metal products, n.e.c.	E1	7	3	0.3	3.5	0.2	0.4	2.1	8.8	6.2	14.9	0.3	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Allentown-Bethlehem-Easton, Pa.-N.J., SMSA—Con.													
35	Machinery, except electrical	-	89	34	6.9	100.2	4.3	8.8	56.5	236.7	218.6	468.6	13.8	5.2	104.8
353	Construction and related machinery	-	9	5	1.2	18.1	0.6	1.1	7.7	52.3	27.6	78.1	(D)	1.1	15.9
354	Metalworking machinery	-	10	4	0.5	7.2	0.4	0.7	4.4	12.6	9.3	22.1	(D)	(NA)	(NA)
355	Special industry machinery	-	12	4	0.4	4.7	0.3	0.5	3.2	16.9	24.4	43.4	(D)	0.7	14.3
356	General industrial machinery	-	20	11	3.4	51.5	2.1	4.3	28.7	115.2	137.0	265.6	(D)	(NA)	(NA)
357	Office and computing machines	-	3	3	0.9	11.7	0.7	1.5	7.9	27.8	10.8	38.4	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	40	21	8.6	126.0	6.9	13.5	92.4	305.4	179.4	479.3	18.5	9.4	204.1
364	Electric lighting and wiring equipment	-	8	6	1.4	12.9	1.1	2.2	10.0	27.1	20.1	47.3	(D)	2.1	33.2
38	Instruments and related products	-	16	7	1.0	10.6	0.8	1.5	7.4	18.7	6.5	23.0	1.0	0.8	13.0
382	Measuring and controlling devices	-	7	4	0.5	5.0	0.4	0.7	3.7	8.5	2.4	9.3	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	38	14	2.6	28.9	2.0	4.1	20.7	73.7	56.0	127.2	7.5	(NA)	(NA)
--	Administrative and auxiliary	-	35	21	9.7	213.6	-	-	-	-	-	-	-	(NA)	(NA)
	Altoona SMSA	-	147	63	12.1	134.6	9.6	17.9	96.3	340.8	315.9	648.0	23.5	15.6	234.9
20	Food and kindred products	-	30	17	1.3	15.0	0.9	1.7	8.0	40.2	70.4	110.2	3.3	1.6	21.0
205	Bakery products	-	7	6	0.6	6.6	0.4	0.8	3.9	18.1	12.9	31.0	0.3	0.6	9.3
23	Apparel and other textile products	-	10	6	1.2	7.5	1.1	2.0	6.8	13.1	9.0	20.9	0.2	1.5	12.9
26	Paper and allied products	-	5	5	1.3	17.6	1.0	2.1	13.3	41.0	54.0	92.4	(D)	1.7	27.2
27	Printing and publishing	-	23	4	0.9	10.4	0.6	1.0	6.8	31.9	11.6	43.4	0.4	(NA)	(NA)
32	Stone, clay, and glass products	-	12	6	1.1	17.5	0.9	1.9	14.5	43.5	32.2	75.3	2.7	(NA)	(NA)
34	Fabricated metal products	-	9	4	0.6	7.9	0.5	1.1	6.6	17.2	9.8	26.9	0.8	0.6	9.8
35	Machinery, except electrical	-	7	3	1.1	14.9	0.8	1.6	10.4	29.1	24.0	51.2	(D)	(NA)	(NA)
	Binghamton, N.Y.-Pa., SMSA	-	389	146	39.6	578.1	22.3	42.9	236.3	1 081.2	1 244.8	2 273.4	73.9	36.4	673.5
20	Food and kindred products	-	34	13	1.1	12.2	0.8	1.5	7.4	41.4	89.8	131.8	2.2	1.0	17.5
23	Apparel and other textile products	-	23	14	1.0	7.1	0.9	1.6	5.9	11.3	13.2	23.8	0.3	1.3	9.0
233	Women's and misses' outerwear	-	11	9	0.6	3.4	0.5	0.9	3.0	4.6	2.0	6.5	(D)	0.8	4.2
239	Miscellaneous fabricated textile products	-	7	3	0.4	2.7	0.3	0.6	2.2	5.4	10.4	15.2	(D)	0.3	3.7
24	Lumber and wood products	-	44	6	0.6	5.7	0.5	0.9	4.3	8.2	13.5	21.8	0.5	0.6	7.9
25	Furniture and fixtures	E2	10	6	1.2	11.3	1.0	1.8	8.6	19.8	20.6	40.0	0.3	1.1	15.7
30	Rubber and miscellaneous plastics products	-	20	12	1.1	8.6	0.9	1.7	6.9	28.8	28.2	56.4	2.1	(NA)	(NA)
33	Primary metal industries	-	5	4	0.4	5.1	0.4	0.8	3.9	8.6	5.1	13.5	0.6	0.5	5.7
34	Fabricated metal products	-	24	12	1.7	21.6	1.3	2.6	14.9	41.7	26.2	66.7	2.0	1.4	20.8
344	Fabricated structural metal products	E2	10	4	0.3	4.6	0.2	0.5	3.4	7.6	8.5	16.1	0.4	(NA)	(NA)
346	Metal forgings and stampings	E2	4	4	0.5	5.8	0.4	0.7	4.2	10.5	7.1	17.2	0.6	0.4	5.1
35	Machinery, except electrical	-	51	16	3.8	35.9	3.1	6.0	25.4	59.9	44.8	103.8	3.8	2.0	27.3
357	Office and computing machines	E3	4	3	1.5	11.0	1.3	2.7	7.9	16.3	7.6	23.7	0.7	1.0	10.5
3573	Electronic computing equipment	E3	4	3	1.5	11.0	1.3	2.7	7.9	16.3	7.6	23.7	0.7	1.0	10.5
359	Miscellaneous machinery, except electrical	-	22	6	0.5	5.1	0.5	0.8	3.5	10.0	3.6	13.7	0.6	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	-	22	6	0.5	5.1	0.5	0.8	3.5	10.0	3.6	13.7	0.6	(NA)	(NA)
38	Instruments and related products	-	13	6	4.4	64.7	2.4	5.1	31.2	110.4	99.3	217.6	(D)	(NA)	(NA)
--	Administrative and auxiliary	-	11	9	0.7	8.9	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Erie SMSA	–	**510**	**209**	**42.0**	**600.7**	**29.0**	**55.8**	**356.5**	**1 254.8**	**1 093.8**	**2 323.7**	**76.3**	**42.5**	**764.8**
20	Food and kindred products	–	32	14	1.8	21.2	1.3	2.4	12.7	62.4	107.5	172.5	4.8	2.0	50.8
203	Preserved fruits and vegetables	–	7	4	0.7	7.1	0.6	1.1	5.8	30.8	43.5	77.3	(D)	0.8	25.3
208	Beverages	–	7	3	0.3	3.7	0.2	0.3	1.5	9.9	9.1	19.1	0.5	0.3	9.1
24	Lumber and wood products	–	22	5	0.4	3.7	0.3	0.5	2.6	7.8	21.7	28.0	1.0	0.4	3.9
25	Furniture and fixtures	–	14	10	1.6	16.2	1.3	2.7	11.6	30.8	23.2	53.9	1.3	1.4	16.4
2511	Wood household furniture	–	4	3	0.5	4.0	0.5	0.9	3.0	6.2	5.8	11.9	(D)	0.4	3.1
27	Printing and publishing	E1	43	8	0.9	10.1	0.5	0.9	5.7	21.2	9.2	30.4	(D)	0.9	14.7
30	Rubber and miscellaneous plastics products	–	42	27	3.4	40.6	2.5	4.7	23.3	76.7	72.9	148.5	6.4	3.4	53.4
33	Primary metal industries	–	26	18	3.6	50.1	2.9	5.5	37.7	81.8	85.1	171.4	7.9	3.5	50.8
332	Iron and steel foundries	–	8	8	1.5	20.1	1.2	2.2	14.8	33.4	24.8	58.0	2.8	1.3	18.3
336	Nonferrous foundries	–	9	5	0.7	9.8	0.6	1.2	8.1	17.0	10.7	27.6	(D)	(NA)	(NA)
34	Fabricated metal products	–	88	41	5.5	73.9	4.1	7.5	48.4	150.9	121.9	274.3	10.8	5.8	95.4
342	Cutlery, hand tools, and hardware	E1	5	3	0.3	3.2	0.2	0.4	2.0	7.3	3.0	10.4	0.1	(NA)	(NA)
344	Fabricated structural metal products	–	26	10	1.6	22.5	1.0	1.8	12.2	46.7	40.0	88.6	2.6	1.5	22.1
345	Screw machine products, bolts, etc.	–	11	6	0.6	7.3	0.4	0.8	4.8	13.5	7.6	20.3	1.2	(NA)	(NA)
346	Metal forgings and stampings	–	9	8	1.5	20.6	1.2	2.3	15.3	39.4	39.7	78.8	5.2	1.6	27.3
3462	Iron and steel forgings	–	3	3	0.4	5.3	0.3	0.5	3.2	12.3	10.1	22.6	(D)	0.5	10.6
3471	Plating and polishing	–	14	4	0.3	3.1	0.2	0.4	1.9	5.4	3.1	8.5	0.3	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	16	7	1.1	14.5	0.9	1.6	10.6	27.8	21.1	49.2	1.0	1.0	16.5
3494	Valves and pipe fittings	–	7	4	0.6	7.4	0.5	0.9	5.4	15.0	13.6	29.2	(D)	0.5	5.6
35	Machinery, except electrical	–	121	34	4.9	72.5	3.4	7.0	46.9	155.5	137.0	286.6	5.5	5.5	108.9
354	Metalworking machinery	–	47	11	0.8	14.3	0.6	1.4	9.4	24.2	11.9	34.8	1.3	0.9	13.1
355	Special industry machinery	E2	12	5	0.4	5.4	0.3	0.5	3.5	10.4	7.0	17.2	0.2	0.3	5.9
356	General industrial machinery	–	17	6	1.1	16.1	0.8	1.6	9.9	42.9	28.9	69.4	1.3	1.9	40.2
36	Electric and electronic equipment	–	25	14	4.2	55.7	2.8	5.3	31.3	133.8	74.2	205.0	6.6	3.6	62.7
367	Electronic components and accessories	–	13	5	1.4	14.6	0.9	1.8	8.7	23.3	14.9	38.1	(D)	1.3	15.5
38	Instruments and related products	–	11	6	3.3	53.0	1.6	3.3	21.9	120.7	75.6	194.2	4.1	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	17	5	0.4	3.3	0.3	0.6	2.2	14.1	8.8	22.7	0.2	1.5	13.9
--	Administrative and auxiliary	–	9	5	0.4	8.0	–	–	–	–	–	–	–	(NA)	(NA)
	Harrisburg SMSA	–	**495**	**206**	**40.4**	**515.8**	**27.5**	**52.1**	**302.8**	**1 164.2**	**1 414.5**	**2 563.5**	**66.7**	**40.1**	**713.6**
20	Food and kindred products	–	60	34	8.0	102.1	5.1	9.7	58.6	404.2	628.3	1 034.3	31.0	8.2	233.2
202	Dairy products	–	10	5	0.5	4.7	0.2	0.5	2.2	16.1	22.2	38.2	(D)	0.6	11.1
204	Grain mill products	–	9	7	1.0	14.1	0.8	1.6	9.9	117.6	199.0	316.3	(D)	1.0	54.8
205	Bakery products	–	10	7	1.0	9.5	0.5	0.8	3.6	21.4	15.5	36.9	1.1	0.9	18.5
2051	Bread, cake, and related products	–	10	7	1.0	9.5	0.5	0.8	3.6	21.4	15.5	36.9	1.1	0.9	18.5
23	Apparel and other textile products	–	57	46	3.2	20.8	2.9	5.0	17.7	38.6	24.8	63.0	0.7	3.3	27.6
233	Women's and misses' outerwear	–	37	32	2.1	14.1	1.9	3.4	11.7	27.2	19.9	46.9	0.6	2.3	20.7
26	Paper and allied products	–	9	6	0.9	11.2	0.7	1.3	7.0	25.1	39.6	63.3	3.3	(NA)	(NA)
27	Printing and publishing	E1	98	17	1.9	21.7	1.2	2.1	12.4	46.0	26.1	72.0	1.3	1.8	31.1
275	Commercial printing	E1	58	9	0.8	8.4	0.6	1.1	6.4	15.1	11.3	26.3	0.5	0.8	10.1
2752	Commercial printing, lithographic	E1	23	6	0.5	6.0	0.4	0.8	4.6	10.2	6.0	16.1	(D)	0.5	6.1
31	Leather and leather products	–	9	8	1.9	12.5	1.8	3.3	11.6	23.2	23.8	46.0	1.4	2.2	19.0
35	Machinery, except electrical	–	58	20	3.4	40.6	2.6	4.9	27.4	70.3	96.2	160.5	5.0	2.0	44.6
36	Electric and electronic equipment	–	26	15	3.2	34.0	2.4	4.5	21.4	91.7	53.0	145.3	2.6	4.0	69.3
367	Electronic components and accessories	–	17	10	2.1	21.8	1.6	3.1	13.5	49.3	24.6	73.8	2.1	1.8	24.7
37	Transportation equipment	–	9	6	2.3	33.1	1.8	3.5	24.2	67.4	101.2	167.0	(D)	2.4	51.8
--	Administrative and auxiliary	–	27	14	4.3	73.5	–	–	–	–	–	–	–	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Johnstown SMSA	-	**293**	**101**	**20.8**	**290.9**	**16.7**	**29.0**	**214.2**	**463.5**	**593.1**	**1 092.3**	**27.3**	**23.1**	**336.9**
202	Dairy products	-	8	4	0.4	5.1	0.2	0.4	1.9	13.1	39.1	51.8	(D)	0.4	6.2
23	Apparel and other textile products	E2	30	27	3.2	18.6	3.0	5.0	16.6	29.2	16.6	44.8	(D)	3.5	27.2
232	Men's and boys' furnishings	-	6	6	0.9	5.3	0.9	1.5	5.0	7.7	6.0	13.3	(D)	1.0	12.9
233	Women's and misses' outerwear	E5	12	11	0.8	4.1	0.8	1.2	3.5	5.9	1.7	7.6	(D)	1.2	5.6
2335	Women's and misses' dresses	E6	9	8	0.5	2.8	0.4	0.7	2.3	4.3	1.6	5.9	(D)	1.2	5.6
2339	Women's and misses' outerwear, n.e.c.	-	3	3	0.3	1.3	0.3	0.4	1.2	1.6	0.1	1.7	(D)	(NA)	(NA)
234	Women's and children's undergarments	E3	8	7	1.2	7.2	1.1	1.8	6.5	11.7	4.7	15.8	(D)	1.1	6.9
24	Lumber and wood products	E2	66	5	0.5	5.0	0.4	0.9	3.8	9.9	10.3	20.1	1.1	(NA)	(NA)
242	Sawmills and planing mills	E2	39	2	0.3	3.1	0.3	0.6	2.3	6.8	5.5	12.2	0.8	(NA)	(NA)
27	Printing and publishing	-	26	5	0.5	5.7	0.3	0.6	3.4	10.7	4.7	15.4	1.0	0.5	7.7
32	Stone, clay, and glass products	E2	27	9	0.5	6.0	0.4	0.8	4.6	13.5	11.8	25.3	1.4	0.5	8.6
34	Fabricated metal products	-	23	11	0.7	7.1	0.6	1.2	5.1	17.6	23.8	38.4	1.0	0.4	4.1
35	Machinery, except electrical	E1	30	8	0.7	9.0	0.5	1.0	5.9	20.2	15.9	35.2	1.1	(NA)	(NA)
	Lancaster SMSA	-	**770**	**340**	**56.4**	**693.6**	**41.0**	**80.0**	**425.4**	**1 492.5**	**1 852.1**	**3 304.8**	**117.7**	**53.0**	**953.0**
20	Food and kindred products	-	104	39	5.2	57.6	3.9	7.7	37.2	136.3	503.8	633.5	45.2	5.0	75.7
201	Meat products	-	12	6	1.8	17.7	1.6	3.1	13.8	25.4	104.5	128.6	(D)	1.4	16.7
202	Dairy products	-	15	4	0.6	7.9	0.3	0.6	3.3	22.8	57.0	79.6	(D)	0.9	16.5
204	Grain mill products	-	23	7	0.5	7.8	0.3	0.7	4.0	18.9	136.4	154.5	(D)	0.6	14.3
205	Bakery products	-	19	6	0.5	4.4	0.4	0.7	3.0	9.1	11.4	20.4	(D)	0.5	7.3
2052	Cookies and crackers	-	8	3	0.3	2.9	0.3	0.5	2.2	5.5	7.3	12.7	(D)	0.3	4.0
206	Sugar and confectionery products	-	14	8	0.9	12.4	0.7	1.4	8.9	38.7	163.7	198.4	(D)	0.7	10.6
209	Miscellaneous foods and kindred products	-	9	5	0.5	4.8	0.3	0.8	2.8	15.0	18.5	33.5	(D)	0.5	7.6
2099	Food preparations, n.e.c.	-	9	5	0.5	4.8	0.3	0.8	2.8	15.0	18.5	33.5	(D)	0.5	7.6
22	Textile mill products	-	17	12	2.5	26.0	2.2	4.2	20.5	54.3	124.5	176.7	2.1	2.4	35.1
23	Apparel and other textile products	E1	59	50	5.9	41.1	5.0	8.8	31.1	69.8	51.5	120.6	1.3	5.6	51.0
232	Men's and boys' furnishings	-	5	5	0.6	3.6	0.6	1.0	3.2	5.8	5.1	10.9	(D)	0.7	6.2
233	Women's and misses' outerwear	E5	14	11	0.8	5.4	0.7	1.2	4.6	8.8	4.9	13.8	(D)	0.6	5.0
234	Women's and children's undergarments	E1	17	16	2.4	17.0	1.8	3.3	11.2	24.1	20.0	44.2	(D)	2.1	22.1
2341	Women's and children's underwear	E1	17	16	2.4	17.0	1.8	3.3	11.2	24.1	20.0	44.2	(D)	2.1	22.1
236	Children's outerwear	-	10	10	1.1	7.3	1.0	1.8	6.4	18.9	12.5	30.8	(D)	1.3	9.9
24	Lumber and wood products	-	50	17	1.6	17.0	1.1	2.2	10.8	35.6	55.8	90.9	1.4	1.5	27.5
243	Millwork, plywood, and structural members	-	22	7	0.8	8.1	0.6	1.1	5.2	14.8	13.5	28.2	0.6	0.5	7.6
245	Wood buildings and mobile homes	-	8	6	0.5	5.9	0.4	0.6	3.8	14.2	30.9	45.4	0.3	0.7	16.2
2451	Mobile homes	-	5	5	0.4	5.5	0.3	0.6	3.4	13.0	29.5	42.8	0.3	0.7	16.2
25	Furniture and fixtures	-	18	8	1.1	12.2	0.9	1.7	8.7	22.6	24.2	46.6	0.8	1.2	18.4
251	Household furniture	E1	12	5	0.7	8.0	0.6	1.1	5.6	15.3	17.4	32.6	0.4	0.9	14.0
27	Printing and publishing	-	103	33	3.5	45.8	2.7	5.3	30.8	105.0	76.1	179.3	4.2	3.1	48.0
2711	Newspapers	-	19	5	0.7	8.0	0.5	0.8	4.0	17.1	7.0	24.1	0.7	0.7	11.6
275	Commercial printing	-	49	17	2.2	29.7	1.7	3.6	21.5	62.4	53.3	115.1	2.4	1.8	24.8
28	Chemicals and allied products	-	18	6	1.1	12.4	0.8	1.5	8.9	83.5	42.4	126.9	1.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	25	9	1.5	16.9	1.2	2.5	12.4	46.6	53.4	98.0	8.1	1.2	25.6
31	Leather and leather products	-	19	12	2.0	14.6	1.7	3.2	11.2	23.0	21.3	42.4	0.9	2.0	17.2
314	Footwear, except rubber	-	13	12	2.0	14.5	1.7	3.2	11.1	22.9	21.2	42.2	(D)	(NA)	(NA)
3149	Footwear, except rubber, n.e.c.	-	6	6	0.8	5.9	0.7	1.3	4.3	7.4	6.8	14.6	(D)	0.9	7.8
32	Stone, clay, and glass products	-	27	11	2.1	27.2	1.6	3.0	18.9	63.7	46.7	110.8	3.7	2.3	46.5
33	Primary metal industries	-	30	17	3.0	41.0	2.5	4.8	30.0	96.1	226.3	318.1	8.8	2.7	37.1
332	Iron and steel foundries	-	9	7	1.3	14.3	1.1	2.2	11.4	24.7	11.8	36.4	0.9	1.2	14.2
3322	Malleable iron foundries	-	4	4	1.1	12.1	0.9	1.8	9.6	21.8	9.0	30.6	0.7	0.9	11.2

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Lancaster SMSA—Con.														
34	Fabricated metal products	–	72	41	6.5	80.9	5.2	10.2	59.4	178.1	177.3	347.0	10.0	6.0	104.0
342	Cutlery, hand tools, and hardware	–	8	6	1.1	11.8	0.8	1.5	7.8	27.8	22.6	49.5	1.2	1.2	19.0
344	Fabricated structural metal products	–	21	12	0.8	11.4	0.6	1.3	6.9	22.6	49.4	71.2	1.3	0.7	12.4
3444	Sheet metal work	–	7	5	0.4	6.8	0.3	0.7	4.0	12.9	33.2	46.4	0.8	0.3	6.5
345	Screw machine products, bolts, etc.	–	12	7	0.6	9.0	0.5	1.0	6.9	17.6	10.6	27.8	(D)	0.7	11.5
349	Miscellaneous fabricated metal products	–	11	4	1.9	24.6	1.6	3.0	18.0	50.8	29.1	75.6	(D)	1.8	29.6
35	Machinery, except electrical	–	104	27	6.3	98.4	3.5	7.4	48.2	200.8	123.9	313.4	7.2	4.8	85.1
353	Construction and related machinery	–	9	7	0.8	10.6	0.5	1.1	6.8	31.7	19.7	49.4	0.9	0.7	11.3
355	Special industry machinery	–	10	1	0.4	4.4	0.3	0.6	3.0	14.6	8.5	23.3	0.3	(NA)	(NA)
356	General industrial machinery	–	12	6	0.8	10.0	0.6	1.3	7.6	21.9	14.5	35.9	0.7	0.6	12.6
359	Miscellaneous machinery, except electrical	E2	30	4	0.4	4.7	0.3	0.6	3.4	8.3	6.0	14.2	0.6	0.3	5.0
3599	Machinery, except electrical, n.e.c.	E2	30	4	0.4	4.7	0.3	0.6	3.4	8.3	6.0	14.2	0.6	0.3	5.0
36	Electric and electronic equipment	–	20	12	5.5	73.4	3.9	7.8	40.2	129.7	77.9	210.8	7.6	5.5	142.5
37	Transportation equipment	–	21	10	1.2	13.9	0.9	1.8	9.4	30.9	53.1	83.2	0.9	1.0	16.7
38	Instruments and related products	–	11	7	0.9	9.7	0.6	1.2	5.3	13.3	22.6	39.2	0.3	0.8	9.4
394	Toys and sporting goods	–	12	3	0.4	2.6	0.3	0.5	1.9	5.4	7.1	13.7	(D)	0.6	8.2
	Northeast Pennsylvania SMSA	–	1 266	664	**70.9**	**685.0**	**56.4**	**101.4**	**482.3**	**1 327.8**	**1 293.9**	**2 583.0**	**93.5**	**82.8**	**1 024.2**
201	Meat products	E1	21	11	0.7	6.5	0.6	1.2	4.6	12.0	64.0	75.7	1.3	0.5	5.8
2011	Meat packing plants	–	11	4	0.3	3.1	0.3	0.6	2.2	5.5	45.3	50.5	0.9	(NA)	(NA)
202	Dairy products	E1	19	10	0.5	4.6	0.2	0.4	2.0	7.2	23.7	30.9	0.7	0.7	4.1
2026	Fluid milk	E1	14	7	0.3	3.8	0.1	0.3	1.5	6.0	19.4	25.3	0.7	0.6	3.1
205	Bakery products	E1	23	5	0.6	6.2	0.4	0.7	4.4	17.3	13.0	30.3	0.8	1.4	23.3
2051	Bread, cake, and related products	E1	23	5	0.6	6.2	0.4	0.7	4.4	17.3	13.0	30.3	0.8	1.4	23.3
208	Beverages	E1	21	8	0.6	7.3	0.3	0.6	3.4	14.0	24.6	38.9	0.9	0.8	15.0
22	Textile mill products	–	46	34	4.1	34.0	3.5	6.5	26.6	61.1	103.7	163.6	3.8	6.5	67.5
23	Apparel and other textile products	E2	401	298	20.4	133.6	18.7	30.6	112.6	205.3	89.9	297.1	3.2	25.1	188.0
2311	Men's and boys' suits and coats	–	21	15	1.9	17.1	1.7	3.3	14.6	22.5	12.2	34.8	0.7	1.3	10.9
232	Men's and boys' furnishings	–	29	23	2.7	18.5	2.5	3.9	15.4	27.6	16.9	45.1	0.3	4.3	34.5
2327	Men's and boys' separate trousers	–	13	10	1.3	9.2	1.2	2.0	7.4	12.3	5.4	17.6	(D)	1.8	13.1
233	Women's and misses' outerwear	E3	284	217	13.3	81.1	12.3	19.7	69.0	118.0	35.9	155.4	1.8	16.1	116.1
2331	Women's and misses' blouses and waists	–	29	27	1.7	9.5	1.6	2.6	8.5	18.5	3.6	21.8	0.5	1.4	9.6
2335	Women's and misses' dresses	E4	229	170	10.0	61.6	9.2	14.6	51.7	86.1	29.4	117.2	1.1	13.1	96.5
2337	Women's and misses' suits and coats	E1	8	8	0.6	3.8	0.6	0.9	3.4	5.0	0.4	5.4	(Z)	0.6	3.6
2339	Women's and misses' outerwear, n.e.c.	E3	18	12	1.0	6.2	0.9	1.6	5.4	8.5	2.4	11.0	0.1	1.1	6.4
234	Women's and children's undergarments	–	8	6	0.3	2.0	0.3	0.5	1.7	5.9	0.5	6.3	(Z)	0.6	3.6
236	Children's outerwear	E2	26	21	1.2	7.1	1.1	1.7	6.1	12.1	8.8	20.8	0.1	1.9	15.3
2361	Children's dresses and blouses	E3	19	17	0.9	4.5	0.8	1.2	3.7	6.1	2.8	8.9	(Z)	1.5	10.5
239	Miscellaneous fabricated textile products	–	22	8	0.6	5.2	0.5	0.9	3.9	14.5	12.1	26.5	0.1	0.4	5.4
24	Lumber and wood products	E1	67	19	1.1	10.9	0.9	1.8	8.0	25.4	38.7	64.0	1.6	1.4	18.9
243	Millwork, plywood, and structural members	–	20	6	0.3	3.0	0.3	0.4	2.2	7.0	6.4	13.4	0.1	0.3	4.2
2434	Wood kitchen cabinets	–	14	6	0.3	2.7	0.2	0.4	2.0	6.6	5.8	12.4	(D)	(NA)	(NA)
245	Wood buildings and mobile homes	E1	8	6	0.4	4.4	0.3	0.6	3.1	9.8	18.4	28.3	0.3	0.8	11.6
25	Furniture and fixtures	–	28	12	1.3	12.7	1.1	1.9	9.8	24.9	24.9	49.3	0.2	2.5	29.1
251	Household furniture	–	15	7	0.6	5.2	0.5	0.9	3.5	8.5	13.4	22.2	(Z)	1.8	19.5
2512	Upholstered household furniture	–	6	5	0.4	3.7	0.3	0.6	2.5	6.5	9.3	15.9	(D)	1.2	14.3
26	Paper and allied products	–	25	16	2.2	25.8	1.7	3.3	18.3	65.7	97.3	162.4	6.9	1.8	31.3
27	Printing and publishing	–	113	26	3.6	44.2	2.5	5.0	28.7	78.7	33.6	111.7	4.0	4.0	57.5
2711	Newspapers	–	21	6	1.2	17.0	0.7	1.2	8.9	28.9	7.2	36.1	0.7	1.3	20.3
273	Books	–	7	2	0.4	5.0	0.3	0.7	3.8	9.6	6.3	15.9	(D)	0.9	8.1
275	Commercial printing	E1	67	16	1.2	13.3	0.9	1.8	9.7	26.5	13.4	39.3	2.0	1.7	25.1
2752	Commercial printing, lithographic	E1	30	12	0.9	10.5	0.7	1.4	7.7	19.0	9.3	28.3	(D)	1.1	16.2

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	Northeast Pennsylvania SMSA—Con.													
28	Chemicals and allied products	–	26	10	0.9	10.1	0.6	1.1	6.2	41.1	37.6	82.9	2.8	1.1	38.0
284	Soaps, cleaners, and toilet goods	–	9	4	0.3	3.4	0.2	0.5	2.4	35.9	21.3	57.8	0.8	0.6	28.3
30	Rubber and miscellaneous plastics products	E1	38	20	3.1	30.6	2.5	4.8	22.7	64.1	92.8	156.4	4.1	2.7	35.3
3079	Miscellaneous plastics products	–	28	13	1.9	21.2	1.4	2.9	15.4	48.6	80.3	128.7	(D)	1.8	27.9
31	Leather and leather products	E2	15	11	2.1	14.4	1.8	3.1	10.8	21.6	21.3	42.7	0.4	3.8	31.6
3142	House slippers	E1	4	3	0.8	5.5	0.7	1.2	4.2	7.7	7.3	14.9	(D)	(NA)	(NA)
3144	Women's footwear, except athletic	–	7	6	0.9	5.3	0.8	1.3	4.2	9.0	9.4	18.6	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	48	14	2.6	32.1	2.1	4.1	24.2	79.6	54.1	134.1	5.8	1.7	31.9
327	Concrete, gypsum, and plaster products	–	31	6	0.4	4.8	0.3	0.6	3.2	9.6	13.6	23.2	1.1	0.4	6.7
3273	Ready-mixed concrete	–	13	4	0.3	3.3	0.2	0.4	2.3	6.8	10.8	17.6	0.9	(NA)	(NA)
33	Primary metal industries	–	23	10	1.0	15.1	0.8	1.7	10.7	23.6	44.5	69.4	(D)	1.0	17.4
332	Iron and steel foundries	–	6	3	0.3	4.3	0.3	0.5	3.6	7.2	3.5	10.6	(D)	0.3	3.3
335	Nonferrous rolling and drawing	–	3	3	0.5	6.7	0.4	0.7	4.8	7.7	20.3	28.7	(D)	(NA)	(NA)
34	Fabricated metal products	–	90	40	6.2	77.4	4.5	8.5	49.8	191.1	140.1	299.3	10.9	6.6	91.8
344	Fabricated structural metal products	–	50	15	2.5	32.0	1.7	3.3	20.5	88.0	51.4	107.8	2.9	1.9	37.0
3442	Metal doors, sash, and trim	–	10	2	0.4	4.2	0.3	0.5	2.3	5.5	7.9	13.3	(D)	0.4	6.2
3443	Fabricated plate work (boiler shops)	–	9	4	1.3	18.4	0.9	1.7	11.7	65.0	29.7	63.4	(D)	1.1	24.7
3446	Architectural metal work	–	12	3	0.4	5.1	0.3	0.6	3.7	8.9	4.6	13.5	0.3	(NA)	(NA)
346	Metal forgings and stampings	–	10	9	1.0	12.3	0.7	1.5	8.6	28.5	26.4	53.9	4.4	0.9	15.3
349	Miscellaneous fabricated metal products	–	13	8	1.0	12.3	0.7	1.3	7.1	25.6	24.0	50.9	(D)	0.8	11.6
35	Machinery, except electrical	–	83	29	2.9	35.9	2.1	4.2	24.1	57.1	68.9	125.5	6.0	3.4	59.8
353	Construction and related machinery	–	12	8	0.6	7.2	0.4	0.8	4.5	13.0	17.1	29.4	1.0	0.5	5.7
3532	Mining machinery	–	5	3	0.3	3.3	0.2	0.3	1.9	5.6	8.9	14.4	(D)	(NA)	(NA)
356	General industrial machinery	–	9	6	1.3	17.2	1.0	2.0	12.1	21.6	34.9	57.8	2.9	0.8	9.8
359	Miscellaneous machinery, except electrical	E1	32	5	0.3	3.3	0.2	0.4	2.3	6.2	5.7	12.1	0.2	0.3	3.7
3599	Machinery, except electrical, n.e.c.	E1	32	5	0.3	3.3	0.2	0.4	2.3	6.2	5.7	12.1	0.2	0.3	3.7
36	Electric and electronic equipment	–	35	24	6.5	74.5	5.4	10.0	54.9	164.4	138.8	299.4	21.1	7.2	124.7
364	Electric lighting and wiring equipment	–	13	8	1.2	12.4	1.0	1.9	9.6	22.0	27.3	49.1	(D)	1.2	16.4
3644	Noncurrent-carrying wiring devices	–	4	4	0.6	7.2	0.5	1.0	5.7	14.6	15.2	29.9	(D)	0.6	8.6
37	Transportation equipment	–	22	13	1.6	21.8	1.4	2.6	16.1	30.4	69.3	98.9	0.5	1.5	24.3
38	Instruments and related products	E4	13	4	1.3	14.4	1.1	2.0	11.3	30.2	17.6	45.1	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	43	15	1.9	18.4	1.5	2.7	11.8	39.5	40.3	77.2	1.4	3.4	42.1
399	Miscellaneous manufactures	–	25	5	0.6	5.7	0.5	0.9	3.8	11.2	11.0	22.4	0.5	1.5	12.3
3995	Burial caskets	–	8	4	0.4	3.8	0.4	0.7	3.0	7.4	8.3	15.8	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	30	20	2.4	27.9	–	–	–	–	–	–	–	(NA)	(NA)
	Philadelphia, Pa.-N.J., SMSA	–	**7 946**	**2 909**	**451.8**	**6 364.7**	**293.5**	**569.0**	**3 510.6**	**13 429.6**	**18 223.2**	**31 507.5**	**723.4**	**495.7**	**9 189.9**
20	Food and kindred products	–	495	227	39.1	525.8	27.6	54.3	331.6	1 452.2	2 857.6	4 300.6	97.8	40.5	919.3
201	Meat products	E1	96	46	7.4	104.8	5.7	11.3	72.9	246.2	1 027.4	1 268.6	24.4	6.8	131.9
2013	Sausages and other prepared meats	E1	46	25	4.2	61.4	3.1	6.0	41.6	158.8	479.4	636.6	16.2	3.6	76.4
2017	Poultry and egg processing	–	5	5	0.9	9.4	0.7	1.5	6.5	23.6	89.4	113.0	2.3	0.5	12.0
202	Dairy products	–	50	19	2.4	35.3	1.3	2.7	17.4	89.0	250.9	339.0	5.0	4.1	128.7
2026	Fluid milk	–	31	14	1.5	21.3	0.7	1.4	9.1	56.0	169.4	224.7	3.6	2.7	83.3
203	Preserved fruits and vegetables	–	53	25	6.1	72.5	4.7	8.9	49.1	223.4	319.7	543.2	11.6	7.3	157.8
2033	Canned fruits and vegetables	E1	23	10	1.7	14.4	1.5	3.0	11.7	40.9	90.5	131.4	(D)	1.9	37.2
2038	Frozen specialties	–	11	7	1.9	24.0	1.2	2.1	12.7	70.4	58.1	128.7	3.6	2.0	42.0
204	Grain mill products	–	21	7	0.9	11.8	0.6	1.2	8.0	57.8	98.4	157.2	2.6	0.9	19.6
205	Bakery products	–	101	41	9.4	132.1	6.4	12.8	82.0	341.2	223.8	565.0	12.5	8.7	199.3
2051	Bread, cake, and related products	–	84	36	6.5	90.3	3.9	7.6	46.8	205.0	135.5	340.4	(D)	5.6	105.6
2052	Cookies and crackers	–	17	5	2.9	41.8	2.5	5.3	35.2	136.2	88.2	224.6	(D)	3.1	93.6

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia, Pa.-N.J., SMSA—Con.														
20	Food and kindred products—Con.														
206	Sugar and confectionery products	–	51	26	5.6	66.9	4.3	8.4	46.9	149.8	325.4	473.8	12.5	5.1	117.0
2065	Confectionery products	–	39	18	1.6	13.6	1.3	2.4	9.7	33.7	49.7	82.3	1.1	1.6	23.9
207	Fats and oils	–	14	10	0.7	10.1	0.4	0.9	5.8	45.1	116.2	160.6	1.8	0.6	29.7
208	Beverages	–	48	27	4.2	66.3	2.3	4.5	32.4	200.5	265.9	463.5	19.4	4.9	104.9
2086	Bottled and canned soft drinks	–	27	15	2.1	34.1	0.7	1.5	9.1	77.7	147.2	223.4	4.5	2.3	41.8
2087	Flavoring extracts and sirups, n.e.c.	E2	13	6	0.5	7.0	0.3	0.7	4.0	24.8	27.1	51.1	(D)	(NA)	(NA)
209	Miscellaneous foods and kindred products	–	61	26	2.4	25.9	1.9	3.6	16.9	99.2	230.0	329.7	8.0	2.0	30.4
2099	Food preparations, n.e.c.	E1	36	14	1.1	12.2	0.8	1.7	7.3	44.0	85.3	129.3	4.2	0.8	10.0
22	Textile mill products	E1	254	138	16.9	149.6	14.5	26.7	110.7	298.4	359.3	650.2	10.6	20.5	251.9
2231	Weaving and finishing mills, wool	E4	9	4	0.3	2.1	0.2	0.3	1.5	3.1	1.4	4.5	0.1	0.7	7.7
2241	Narrow fabric mills	E1	10	5	0.3	2.7	0.3	0.6	2.1	5.7	5.2	10.8	0.2	0.6	5.8
225	Knitting mills	E1	92	56	9.0	75.1	7.8	13.5	55.4	155.6	181.6	332.1	5.3	10.6	122.4
2253	Knit outerwear mills	E2	39	32	6.4	52.6	5.5	9.3	37.5	105.7	119.9	221.1	3.3	5.9	70.1
2257	Circular knit fabric mills	E6	15	7	0.3	2.8	0.2	0.5	2.1	4.1	3.4	7.7	0.2	1.1	16.3
2269	Finishing plants, n.e.c.	–	18	12	0.8	7.1	0.7	1.3	5.1	11.0	17.6	28.3	0.8	0.9	9.7
228	Yarn and thread mills	E1	28	23	1.9	15.3	1.7	3.3	12.3	26.9	38.0	64.8	1.5	1.7	16.2
2281	Yarn mills, except wool	E4	8	5	0.6	5.3	0.6	1.1	4.4	11.3	15.4	26.3	(D)	(NA)	(NA)
229	Miscellaneous textile goods	E1	51	18	2.2	23.8	1.7	3.4	15.7	45.5	51.5	96.6	2.1	2.5	37.0
23	Apparel and other textile products	–	624	325	33.6	275.9	28.7	49.8	201.8	546.8	553.7	1 078.0	8.0	46.1	465.7
2311	Men's and boys' suits and coats	–	94	66	12.0	111.6	10.3	18.5	85.1	202.5	171.8	366.2	2.3	17.2	193.5
233	Women's and misses' outerwear	E1	201	117	10.2	76.7	8.5	14.0	52.2	190.0	202.8	377.8	3.0	12.5	116.5
2331	Women's and misses' blouses and waists	–	20	16	1.5	13.1	1.1	1.6	7.0	50.8	57.9	97.4	0.7	2.3	30.9
2335	Women's and misses' dresses	E2	106	51	4.3	30.5	3.8	6.5	22.2	60.1	46.5	105.4	1.1	6.1	47.4
2337	Women's and misses' suits and coats	–	33	26	2.0	15.5	1.5	2.5	10.2	39.3	46.2	84.3	0.7	1.7	11.0
2339	Women's and misses' outerwear, n.e.c.	–	42	24	2.4	17.6	2.1	3.4	12.8	39.8	52.1	90.7	0.4	2.5	27.2
234	Women's and children's undergarments	–	11	8	0.8	5.4	0.7	1.3	3.8	11.9	11.1	23.4	0.1	1.3	10.7
236	Children's outerwear	–	31	24	2.5	18.7	2.2	3.8	14.7	38.6	28.5	69.1	0.3	3.2	31.7
2361	Children's dresses and blouses	–	19	13	1.5	10.2	1.3	2.3	7.9	27.6	20.9	48.1	0.1	1.9	19.8
2369	Children's outerwear, n.e.c.	–	7	7	0.7	5.2	0.5	0.8	4.0	4.2	5.5	12.3	(D)	0.4	3.1
238	Miscellaneous apparel and accessories	E1	24	8	0.8	5.7	0.7	1.3	4.6	9.6	11.5	20.9	0.7	1.3	12.3
2389	Apparel and accessories, n.e.c.	E1	11	4	0.4	3.2	0.4	0.7	2.6	5.4	7.7	12.8	(D)	0.5	4.2
239	Miscellaneous fabricated textile products	E1	165	46	3.6	30.5	3.1	5.5	21.1	53.8	54.8	107.9	1.1	4.7	42.7
2391	Curtains and draperies	E1	34	7	0.5	3.6	0.4	0.7	2.4	5.6	6.8	12.2	0.1	0.7	5.7
2392	House furnishings, n.e.c.	E2	35	11	0.6	4.3	0.5	1.0	3.0	8.4	11.6	20.0	0.2	0.7	5.5
2395	Pleating and stitching	E1	17	3	0.3	2.6	0.3	0.3	1.7	4.8	2.2	7.0	(D)	(NA)	(NA)
2396	Automotive and apparel trimmings	–	26	9	0.6	6.3	0.5	1.0	4.6	11.3	13.7	25.2	0.2	0.9	11.6
2399	Fabricated textile products, n.e.c.	–	24	11	1.2	11.2	1.0	2.0	7.6	18.8	16.4	34.4	0.4	1.6	12.5
25	Furniture and fixtures	–	229	80	8.0	86.6	6.3	12.2	60.7	171.2	170.9	342.3	7.4	8.7	119.3
251	Household furniture	E1	113	35	3.2	30.0	2.7	5.1	20.9	53.6	73.2	128.2	1.2	3.2	43.6
2511	Wood household furniture	E3	48	7	0.6	4.9	0.5	1.0	3.7	10.1	11.4	20.0	0.4	0.4	4.3
2512	Upholstered household furniture	E3	23	5	0.4	3.5	0.3	0.6	2.5	5.4	5.5	10.9	0.2	0.5	5.8
2514	Metal household furniture	E1	19	12	1.6	14.5	1.3	2.6	10.4	21.5	33.7	58.5	0.2	1.9	24.8
2515	Mattresses and bedsprings	–	18	9	0.5	5.7	0.4	0.7	3.4	14.3	18.9	32.8	0.2	0.5	8.4
252	Office furniture	–	17	7	1.6	20.9	1.3	2.4	14.1	42.8	32.7	74.6	1.2	1.9	27.1
254	Partitions and fixtures	–	62	26	2.2	25.8	1.7	3.5	19.5	55.7	50.2	105.7	4.7	2.7	37.4
2541	Wood partitions and fixtures	–	40	12	0.6	6.8	0.5	0.9	4.9	12.0	10.6	22.5	(D)	1.0	15.1
2542	Metal partitions and fixtures	–	22	14	1.6	18.9	1.2	2.6	14.6	43.7	39.6	83.2	(D)	1.7	22.3
259	Miscellaneous furniture and fixtures	E1	31	10	0.8	8.8	0.5	1.0	5.4	16.8	12.6	29.2	(D)	0.6	8.2
2599	Furniture and fixtures, n.e.c.	–	22	9	0.7	8.3	0.5	0.9	5.1	15.8	11.6	27.3	0.3	0.5	7.3
26	Paper and allied products	–	241	134	17.4	244.3	13.5	26.0	168.9	621.4	793.2	1 409.0	34.3	18.8	385.6

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia, Pa.-N.J., SMSA—Con.														
26	Paper and allied products—Con.														
264	Miscellaneous converted paper products	-	112	45	7.4	100.8	5.6	10.0	67.6	372.7	299.7	668.4	12.4	6.0	169.2
2641	Paper coating and glazing	-	25	11	1.6	24.5	1.1	2.4	15.2	84.9	86.9	169.4	2.3	0.9	37.8
2643	Bags, except textile bags	E3	14	6	1.3	16.8	0.9	1.9	10.7	36.6	52.3	88.3	1.8	1.2	24.3
2649	Converted paper products, n.e.c.	-	29	13	0.9	10.1	0.6	1.2	5.9	25.1	29.9	54.8	1.9	0.9	14.3
265	Paperboard containers and boxes	-	107	70	7.0	92.1	5.4	10.7	61.8	159.8	273.3	432.1	8.8	8.3	128.7
2651	Folding paperboard boxes	-	34	21	2.3	29.5	1.9	3.7	20.2	52.1	76.0	126.6	3.7	2.5	35.6
2652	Setup paperboard boxes	-	11	10	0.6	6.2	0.6	1.0	4.7	9.2	8.7	17.7	0.7	0.9	10.2
2653	Corrugated and solid fiber boxes	-	39	26	2.9	43.2	2.1	4.2	26.9	74.4	119.6	194.3	2.9	3.5	59.1
2654	Sanitary food containers	-	8	5	0.5	5.7	0.4	0.7	4.1	9.5	40.3	49.8	0.8	0.7	14.0
2655	Fiber cans, drums, and similar products	-	15	8	0.6	7.5	0.5	1.1	5.9	14.8	28.7	43.7	0.8	0.6	9.8
27	Printing and publishing	-	1 131	254	37.5	487.1	22.0	39.6	265.2	1 076.1	639.9	1 718.1	53.6	37.6	681.4
2711	Newspapers	-	94	29	10.0	128.0	4.0	6.2	50.5	225.7	97.4	323.1	21.6	10.0	163.4
2721	Periodicals	-	53	14	3.4	40.9	0.6	1.2	6.0	248.8	151.8	400.4	1.0	3.1	129.0
273	Books	-	60	18	3.7	49.2	2.1	3.9	24.3	120.6	67.6	186.6	2.5	3.5	61.1
2731	Book publishing	-	29	8	2.6	35.5	1.1	2.0	13.9	95.4	47.9	141.8	1.4	2.6	50.7
2732	Book printing	-	31	10	1.2	13.6	1.0	1.9	10.4	25.1	19.7	44.8	1.2	0.9	10.5
275	Commercial printing	E1	690	111	12.4	169.8	9.5	17.3	118.6	283.1	238.4	525.7	19.8	14.1	226.3
2751	Commercial printing, letterpress	E2	370	31	3.6	39.3	2.7	4.9	25.6	73.5	53.3	126.9	3.4	4.2	65.3
2752	Commercial printing, lithographic	E1	281	69	5.9	88.7	4.5	8.3	60.8	140.6	106.1	251.8	6.2	7.0	114.4
2753	Engraving and plate printing	-	28	6	0.6	7.4	0.5	0.9	5.1	14.4	8.4	22.3	5.0	0.4	7.0
2754	Commercial printing, gravure	-	11	5	2.2	34.4	1.8	3.2	27.2	54.6	70.6	124.8	5.3	2.5	39.6
2761	Manifold business forms	-	31	19	1.4	19.3	1.0	2.2	12.6	52.2	37.3	89.1	2.7	1.2	21.5
278	Blankbooks and bookbinding	-	57	27	2.2	23.1	1.8	3.4	17.3	40.5	14.5	54.8	1.6	2.2	24.7
2782	Blankbooks and looseleaf binders	-	17	11	1.0	10.3	0.8	1.5	7.6	20.8	9.5	30.2	1.2	0.7	9.8
2789	Bookbinding and related work	E1	40	16	1.2	12.7	1.0	1.9	9.7	19.7	4.9	24.6	0.4	1.4	15.0
279	Printing trade services	-	97	26	3.0	42.6	2.3	4.2	31.3	69.2	16.0	84.8	3.6	2.5	39.3
2791	Typesetting	-	74	19	2.3	28.6	1.8	3.3	21.2	49.3	10.0	58.9	2.8	1.9	27.9
2795	Lithographic platemaking services	-	15	5	0.6	12.4	0.4	0.8	8.9	17.4	5.4	22.7	0.6	0.3	5.5
28	Chemicals and allied products	-	347	148	29.3	499.0	17.4	34.6	254.4	1 998.6	1 685.3	3 673.3	97.2	30.5	1 240.7
281	Industrial inorganic chemicals	-	33	16	1.8	28.1	1.3	2.6	18.6	104.1	146.3	248.6	18.6	2.2	61.2
2819	Industrial inorganic chemicals, n.e.c.	-	10	7	0.7	11.5	0.5	1.1	7.8	45.3	74.4	119.5	5.9	1.2	31.8
282	Plastics materials and synthetics	-	14	13	3.5	63.2	2.1	4.7	33.8	224.4	338.1	564.7	16.0	4.3	144.0
283	Drugs	-	42	21	12.1	228.4	6.6	12.8	103.8	1 076.6	401.3	1 468.7	27.4	10.8	711.1
2834	Pharmaceutical preparations	-	34	17	11.6	220.8	6.3	12.1	99.3	1 058.5	390.3	1 440.0	26.5	10.5	703.6
284	Soaps, cleaners, and toilet goods	-	82	27	2.1	27.7	1.2	2.4	14.2	103.2	142.6	245.7	3.2	2.4	58.1
2841	Soap and other detergents	-	23	10	0.8	10.5	0.6	1.1	6.1	34.5	51.9	86.5	1.0	1.0	25.6
2842	Polishes and sanitation goods	-	29	8	0.6	7.8	0.4	0.7	3.9	34.4	41.9	75.4	0.7	0.6	16.4
2843	Surface active agents	-	11	8	0.4	7.0	0.2	0.5	3.4	21.8	45.5	67.5	1.5	(NA)	(NA)
2851	Paints and allied products	-	46	18	2.5	38.8	1.6	3.0	20.4	115.0	139.1	253.7	3.6	3.1	86.8
286	Industrial organic chemicals	-	24	12	3.8	64.9	2.4	4.6	37.7	245.0	373.8	623.3	21.7	2.9	86.3
287	Agricultural chemicals	-	12	4	0.5	6.2	0.4	0.7	5.2	23.0	28.4	49.6	1.6	0.9	12.1
289	Miscellaneous chemical products	-	94	37	3.1	40.6	1.9	3.7	20.7	107.4	115.7	219.0	5.0	3.8	81.0
2891	Adhesives and sealants	-	21	11	0.6	8.2	0.4	0.7	4.0	23.8	37.9	61.5	1.0	(NA)	(NA)
2899	Chemical preparations, n.e.c.	-	52	14	1.6	19.1	0.9	1.9	10.1	60.2	52.2	108.5	3.4	2.2	53.0
295	Paving and roofing materials	-	29	7	0.7	10.4	0.5	1.1	6.8	26.8	48.0	74.3	3.3	0.6	20.7
2951	Paving mixtures and blocks	-	24	4	0.3	4.7	0.2	0.5	3.1	13.1	24.1	37.2	1.9	(NA)	(NA)
2952	Asphalt felts and coatings	-	5	3	0.4	5.7	0.3	0.6	3.7	13.7	23.9	37.1	1.3	(NA)	(NA)
299	Miscellaneous petroleum and coal products	-	24	12	0.9	17.3	0.3	0.6	3.5	35.7	50.2	85.8	1.6	1.0	28.6
30	Rubber and miscellaneous plastics products	-	280	118	15.9	211.9	12.5	24.5	150.9	469.9	541.6	993.5	28.1	16.1	346.3

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia, Pa.-N.J., SMSA—Con.														
30	Rubber and miscellaneous plastics products—Con.														
3011	Tires and inner tubes	–	5	3	5.2	83.3	4.2	8.2	65.6	208.5	280.7	470.5	7.7	5.3	190.5
3079	Miscellaneous plastics products	–	242	100	9.5	112.8	7.2	14.3	73.6	233.6	240.7	475.1	19.4	8.9	126.7
32	Stone, clay, and glass products	–	309	114	12.8	170.4	9.9	19.7	119.9	385.4	348.9	736.8	26.1	15.0	290.3
3231	Products of purchased glass	–	45	18	1.7	20.8	1.4	2.6	15.4	38.3	44.8	83.2	1.7	1.6	25.8
325	Structural clay products	–	13	7	1.8	22.1	1.4	2.9	15.9	41.9	29.0	71.3	(D)	2.2	36.7
327	Concrete, gypsum, and plaster products	–	121	40	2.6	35.9	1.9	4.0	24.3	72.2	86.8	159.0	6.9	3.4	77.8
3272	Concrete products, n.e.c.	E2	49	18	1.0	12.5	0.8	1.6	8.4	24.7	16.1	41.2	1.2	1.6	33.2
3273	Ready-mixed concrete	–	46	15	0.9	13.5	0.7	1.5	9.2	25.0	36.0	60.9	2.5	0.8	20.1
3275	Gypsum products	–	5	3	0.3	5.1	0.2	0.5	3.6	11.1	22.1	33.2	1.7	0.5	13.5
329	Miscellaneous nonmetallic mineral products	–	97	45	5.7	76.9	4.4	8.3	52.4	201.3	161.9	363.9	14.0	6.0	113.6
3291	Abrasive products	–	19	6	0.8	9.7	0.6	1.0	5.4	18.7	11.8	30.8	0.5	1.0	15.4
3293	Gaskets, packing, and sealing devices	–	21	11	0.9	11.7	0.6	1.3	7.0	21.0	15.0	36.7	1.0	1.4	20.1
3295	Minerals, ground or treated	–	17	7	0.3	4.6	0.3	0.5	3.3	11.3	12.5	23.9	1.5	(NA)	(NA)
3296	Mineral wool	–	7	5	2.1	30.6	1.7	3.6	24.4	114.0	73.3	187.7	(D)	1.7	49.9
3297	Nonclay refractories	–	6	5	0.6	9.5	0.5	0.9	6.5	19.3	25.4	43.8	(D)	0.6	3.7
33	Primary metal industries	–	185	89	24.6	410.4	18.0	34.2	284.7	720.8	1 217.2	1 953.1	42.7	29.5	567.4
331	Blast furnace and basic steel products	–	46	26	16.9	310.7	12.1	23.0	217.1	474.1	896.1	1 384.9	29.2	20.4	415.5
3315	Steel wire and related products	E1	10	3	0.4	4.9	0.3	0.6	3.8	11.0	20.2	30.5	0.2	(NA)	(NA)
3317	Steel pipe and tubes	–	10	8	1.5	20.9	1.1	2.2	15.1	26.4	28.3	56.0	1.2	(NA)	(NA)
332	Iron and steel foundries	–	24	15	1.8	21.9	1.4	2.8	16.8	62.5	48.5	111.7	(D)	2.0	33.5
3341	Secondary nonferrous metals	E1	21	5	0.5	7.7	0.4	0.7	4.7	18.5	44.1	59.0	2.4	0.9	17.9
335	Nonferrous rolling and drawing	–	21	12	2.3	27.4	1.5	3.0	15.6	71.2	153.0	229.3	5.1	3.0	42.3
3357	Nonferrous wire drawing and insulating	–	8	5	0.7	8.3	0.5	1.0	5.9	12.4	30.3	48.4	(D)	1.2	11.0
336	Nonferrous foundries	–	35	15	2.0	24.8	1.6	3.0	19.1	43.2	30.2	72.6	1.0	2.0	33.1
3361	Aluminum foundries	–	18	9	1.2	16.3	1.1	1.9	13.4	31.1	18.0	48.4	0.6	1.3	23.6
3362	Brass, bronze, and copper foundries	–	11	4	0.6	7.0	0.4	0.7	4.4	9.9	10.5	20.3	0.3	0.6	7.3
339	Miscellaneous primary metal products	–	35	15	1.1	17.4	0.8	1.6	11.1	50.5	40.7	90.0	2.9	(NA)	(NA)
3398	Metal heat treating	–	19	9	0.5	6.0	0.4	0.7	4.0	11.3	3.8	15.1	(D)	(NA)	(NA)
3399	Primary metal products, n.e.c.	–	16	6	0.7	11.3	0.5	0.9	7.1	39.2	36.9	74.9	(D)	0.4	13.1
34	Fabricated metal products	–	933	338	37.0	508.0	28.3	56.0	352.2	1 043.9	1 035.5	2 081.6	53.0	43.0	723.4
341	Metal cans and shipping containers	–	18	16	3.1	49.0	2.7	5.3	41.0	134.9	205.6	335.6	3.7	3.7	80.2
3411	Metal cans	–	13	12	2.6	42.7	2.3	4.6	36.6	119.8	180.7	296.1	(D)	(NA)	(NA)
3412	Metal barrels, drums, and pails	–	5	4	0.5	6.3	0.4	0.7	4.4	15.1	24.9	39.5	(D)	(NA)	(NA)
3429	Hardware, n.e.c.	–	32	13	1.1	12.4	0.8	1.6	8.3	29.6	28.5	58.9	0.8	1.4	21.9
343	Plumbing and heating, except electric	E1	26	9	1.0	13.2	0.7	1.3	7.2	25.2	27.7	52.9	1.2	1.8	23.7
3433	Heating equipment, except electric	–	17	7	0.9	11.1	0.5	1.0	5.6	21.6	24.9	46.6	1.0	1.5	21.0
344	Fabricated structural metal products	E1	361	121	9.6	123.9	6.9	13.4	76.5	243.6	276.1	520.9	11.0	11.2	179.1
3441	Fabricated structural metal	–	68	25	1.8	25.0	1.3	2.6	16.1	46.6	61.4	109.2	2.8	2.8	45.9
3442	Metal doors, sash, and trim	E1	47	15	1.0	9.4	0.8	1.5	5.8	18.4	28.1	45.9	1.1	1.3	14.6
3443	Fabricated plate work (boiler shops)	E1	55	32	3.0	44.5	2.1	3.9	25.1	95.1	92.9	189.9	3.1	2.9	61.2
3444	Sheet metal work	–	112	32	3.0	34.0	2.2	4.1	22.5	63.0	70.7	132.7	3.5	3.0	38.3
3446	Architectural metal work	E1	66	11	0.6	8.7	0.5	1.0	5.4	14.8	12.4	27.2	0.3	(NA)	(NA)
345	Screw machine products, bolts, etc.	–	68	28	3.8	49.0	3.0	6.0	37.5	108.3	70.3	176.9	12.9	3.7	65.3
3451	Screw machine products	–	42	11	0.7	8.6	0.6	1.1	6.3	18.0	11.3	29.0	(D)	0.5	7.4
3452	Bolts, nuts, rivets, and washers	–	26	17	3.0	40.4	2.4	4.9	31.2	90.3	59.0	147.9	(D)	3.2	57.9
346	Metal forgings and stampings	–	81	35	7.1	119.9	5.6	11.3	89.6	224.0	211.3	438.7	7.1	9.6	170.8
3469	Metal stampings, n.e.c.	–	65	22	1.8	22.8	1.4	2.9	15.8	42.3	62.0	103.7	2.8	2.2	31.1
347	Metal services, n.e.c.	–	128	25	1.8	21.6	1.4	2.9	14.4	40.1	35.9	76.0	2.9	2.0	29.9
3471	Plating and polishing	E1	71	11	0.8	8.9	0.6	1.3	5.7	14.4	8.1	22.3	0.9	1.1	13.5
3479	Metal coating and allied services	–	57	14	1.0	12.7	0.7	1.6	8.7	25.7	27.8	53.7	2.0	0.9	16.4
349	Miscellaneous fabricated metal products	–	189	79	7.9	99.5	6.1	11.7	63.5	200.2	155.4	354.3	11.9	6.8	106.6
3494	Valves and pipe fittings	–	29	18	2.8	39.8	1.9	3.5	22.1	82.8	53.4	136.7	4.5	3.1	51.8

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia, Pa.-N.J., SMSA—Con.														
34	Fabricated metal products—Con.														
349	Miscellaneous fabricated metal products—Con.														
3495	Wire springs	-	9	6	0.5	5.2	0.4	0.8	3.8	8.5	9.9	18.3	0.7	(NA)	(NA)
3496	Miscellaneous fabricated wire products	E1	37	13	1.0	10.3	0.8	1.7	7.0	19.5	17.5	36.8	1.5	0.9	11.6
3498	Fabricated pipe and fittings	-	25	12	0.9	12.3	0.7	1.3	8.2	26.0	18.1	43.7	(D)	0.3	4.5
3499	Fabricated metal products, n.e.c.	-	84	27	2.2	25.1	1.8	3.6	18.0	49.8	44.7	93.5	2.3	1.6	21.5
35	Machinery, except electrical	-	1 183	308	44.8	661.8	27.9	59.4	363.7	1 176.1	945.2	2 093.8	58.0	45.3	921.9
3535	Conveyors and conveying equipment	-	19	10	1.5	22.2	0.9	1.6	10.6	48.3	35.3	81.5	0.7	1.1	18.2
354	Metalworking machinery	E1	246	44	4.3	70.3	3.3	7.2	50.9	122.5	55.9	175.9	6.3	3.6	61.2
3542	Machine tools, metal forming types	-	12	4	0.6	10.5	0.4	0.9	6.4	22.1	15.0	36.4	1.2	0.6	7.1
3544	Special dies, tools, jigs, and fixtures	E1	183	36	3.3	53.6	2.6	5.6	40.5	89.2	34.7	122.0	4.7	2.5	47.4
355	Special industry machinery	-	140	50	5.3	78.8	2.9	6.1	38.5	135.5	120.7	254.6	5.0	5.8	95.3
3551	Food products machinery	-	16	7	0.5	7.3	0.3	0.6	3.5	13.9	9.8	24.0	0.3	0.6	9.6
3554	Paper industries machinery	-	15	7	1.3	20.5	0.7	1.5	10.7	35.2	24.1	58.7	1.4	1.0	19.1
3559	Special industry machinery, n.e.c.	-	63	21	2.4	35.8	1.4	2.6	17.0	64.6	68.1	129.6	2.3	1.7	30.0
356	General industrial machinery	-	163	66	9.2	138.1	6.0	12.5	84.9	283.4	203.2	481.0	12.4	9.1	155.8
3564	Blowers and fans	-	14	6	0.5	5.7	0.3	0.6	3.3	13.9	8.3	21.8	(D)	0.5	7.4
3567	Industrial furnaces and ovens	-	26	14	1.2	18.0	0.6	1.2	7.8	35.4	34.7	69.1	1.5	1.1	18.6
357	Office and computing machines	-	49	29	7.1	93.9	3.1	5.9	32.0	171.1	120.7	283.2	13.7	4.0	107.8
3573	Electronic computing equipment	-	39	24	6.1	79.7	2.6	5.0	26.2	143.3	104.5	239.8	12.6	3.6	99.0
358	Refrigeration and service machinery	-	58	28	3.2	36.2	2.1	8.1	19.4	78.5	74.7	151.4	1.9	(NA)	(NA)
3585	Refrigeration and heating equipment	E1	28	14	1.8	17.0	1.2	6.3	9.7	39.6	38.7	76.7	1.0	(NA)	(NA)
3589	Service industry machinery, n.e.c.	-	23	10	0.6	7.9	0.4	0.7	3.6	15.0	15.3	30.3	0.4	0.8	11.7
359	Miscellaneous machinery, except electrical	E1	460	64	5.3	69.0	4.2	8.2	48.0	124.5	69.6	192.3	7.6	5.4	90.7
36	Electric and electronic equipment	-	443	181	36.5	498.0	25.5	48.2	299.0	956.7	889.8	1 828.9	39.7	48.6	875.2
361	Electric distributing equipment	-	31	13	7.7	117.9	5.1	9.4	73.2	230.6	112.0	340.8	5.7	(NA)	(NA)
3613	Switchgear and switchboard apparatus	-	22	10	7.3	114.0	4.8	8.8	70.4	222.7	104.9	325.9	5.5	(NA)	(NA)
362	Electrical industrial apparatus	-	45	19	2.5	29.3	1.9	3.7	17.2	65.5	39.9	101.1	2.5	2.2	31.5
3621	Motors and generators	-	11	9	1.5	15.9	1.2	2.4	10.0	32.9	18.1	48.8	0.9	1.1	13.5
3622	Industrial controls	E1	23	6	0.6	6.8	0.4	0.9	4.1	16.9	9.7	24.7	1.2	0.3	4.0
364	Electric lighting and wiring equipment	-	92	40	5.7	61.3	4.0	7.2	33.4	144.6	180.0	322.5	3.9	6.6	112.5
3643	Current-carrying wiring devices	E1	16	8	1.0	9.5	0.8	1.5	6.7	23.2	19.2	42.1	0.3	1.3	14.1
3644	Noncurrent-carrying wiring devices	E1	10	7	0.8	10.7	0.7	1.2	6.9	24.0	30.8	53.7	0.6	0.4	9.0
3645	Residential lighting fixtures	-	41	16	2.4	25.9	1.5	2.4	10.3	60.9	53.1	114.6	0.9	2.8	54.0
3646	Commercial lighting fixtures	-	11	5	1.3	13.1	1.0	1.7	8.4	32.9	69.5	101.2	1.5	1.9	33.4
3652	Phonograph records and prerecorded tape	-	21	6	1.8	18.6	1.5	3.5	15.1	29.1	40.0	68.3	2.2	1.6	17.0
366	Communication equipment	-	72	34	9.4	164.4	5.7	10.7	91.5	272.7	194.2	454.0	11.4	17.3	310.6
367	Electronic components and accessories	-	134	48	6.7	76.6	5.1	9.9	49.2	156.4	251.8	411.2	10.2	4.6	56.7
3674	Semiconductors and related devices	-	14	5	0.8	10.6	0.4	1.0	5.3	22.2	15.1	37.7	(D)	0.7	8.4
3676	Electronic resistors	-	7	4	0.8	7.7	0.7	1.3	5.7	15.3	5.3	21.3	0.7	1.2	13.8
3677	Electronic coils and transformers	-	5	3	0.7	5.9	0.6	1.2	4.3	9.7	2.9	12.0	(D)	(NA)	(NA)
3678	Electronic connectors	-	5	3	0.3	2.7	0 2	0.4	1.8	5.9	4.2	10.3	(D)	(NA)	(NA)
3679	Electronic components, n.e.c.	-	96	29	3.8	46.7	3.0	5.6	30.3	98.7	220.6	321.4	5.0	2.0	25.9
369	Miscellaneous electrical equipment and supplies	-	35	17	2.1	24.5	1.6	3.1	16.4	42.8	48.5	92.5	1.6	2.2	44.8
3694	Engine electrical equipment	E1	13	7	0.8	5.5	0.6	1.3	3.4	11.5	15.7	26.0	0.4	0.5	5.0
37	Transportation equipment	-	134	46	23.3	412.5	13.3	28.4	202.7	628.1	510.1	1 154.6	34.1	22.8	521.7

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia, Pa.-N.J., SMSA—Con.														
37	Transportation equipment—Con.														
371	Motor vehicles and equipment	-	74	24	6.5	100.1	5.3	11.0	78.0	161.1	268.3	427.5	8.0	6.2	151.0
3724	Aircraft engines and engine parts	-	8	4	0.4	6.3	0.3	0.6	3.8	11.8	6.8	18.1	0.6	0.3	3.7
3728	Aircraft equipment, n.e.c.	E1	8	3	0.4	6.8	0.3	0.7	5.0	11.2	3.7	14.5	0.4	0.5	8.0
38	Instruments and related products	-	263	96	19.5	280.0	11.1	22.9	129.3	595.9	277.6	853.3	23.3	17.8	317.4
3811	Engineering and scientific instruments	E1	29	11	1.2	15.5	0.7	1.7	8.3	34.1	17.8	50.7	(D)	1.5	20.9
382	Measuring and controlling devices	-	88	40	13.8	212.3	7.3	15.3	92.5	432.8	172.1	589.9	13.6	12.4	226.0
3823	Process control instruments	-	22	15	9.9	160.8	4.6	9.8	60.7	323.7	116.7	431.2	10.1	8.8	168.0
3832	Optical instruments and lenses	-	20	9	1.0	13.3	0.7	1.5	7.3	38.5	19.0	56.7	(D)	0.6	15.5
384	Medical instruments and supplies	E1	88	26	2.5	27.1	1.7	3.2	15.2	56.1	34.4	87.8	2.0	2.6	42.6
3841	Surgical and medical instruments	E2	27	9	0.7	8.5	0.4	0.8	4.0	18.7	10.4	28.4	0.8	0.6	7.6
3843	Dental equipment and supplies	-	25	9	0.8	9.4	0.6	1.0	8.0	18.5	9.9	27.0	0.7	0.9	17.6
3861	Photographic equipment and supplies	E2	21	5	0.5	8.0	0.3	0.7	4.0	27.7	29.9	57.7	(D)	0.5	8.4
3873	Watches, clocks, and watchcases	-	7	4	0.3	2.8	0.2	0.5	1.5	4.6	3.5	7.6	0.3	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	347	91	9.8	127.5	7.6	13.7	73.2	288.6	327.5	616.1	18.8	9.7	204.7
391	Jewelry, silverware, and plated ware	E1	59	8	0.7	7.4	0.8	1.1	4.7	17.5	28.1	45.3	0.3	0.5	9.8
3944	Games, toys, and children's vehicles	-	16	5	0.6	6.3	0.5	0.8	3.1	17.7	32.0	49.0	(D)	(NA)	(NA)
3949	Sporting and athletic goods, n.e.c.	-	23	9	0.7	7.4	0.6	1.2	5.4	17.1	18.4	34.7	(D)	1.2	19.6
396	Costume jewelry and notions	-	15	6	0.5	4.0	0.5	0.8	2.7	7.2	6.1	13.3	(D)	0.4	4.4
399	Miscellaneous manufactures	-	194	55	6.2	93.4	4.6	8.3	51.5	211.6	222.7	436.2	14.3	5.3	140.3
3991	Brooms and brushes	-	11	5	0.4	4.3	0.2	0.4	1.7	5.3	5.8	10.5	0.1	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	-	97	24	3.8	82.1	2.7	4.6	30.8	144.8	138.6	283.6	(D)	2.9	77.5
	Pittsburgh SMSA	-	**2 662**	**957**	**239.7**	**4 037.5**	**153.9**	**294.0**	**2 311.5**	**6 478.4**	**9 144.9**	**15 480.5**	**558.0**	**262.8**	**4 163.9**
20	Food and kindred products	-	204	74	9.3	124.8	5.8	11.1	68.9	334.2	443.8	774.5	16.6	13.6	273.4
201	Meat products	E1	37	15	0.8	10.5	0.7	1.2	6.9	23.6	82.7	105.8	0.8	0.9	15.7
2011	Meat packing plants	E1	26	10	0.4	5.5	0.4	0.7	3.7	13.7	57.1	70.4	0.3	0.4	6.4
2013	Sausages and other prepared meats	-	11	5	0.4	5.0	0.3	0.5	3.2	9.9	25.7	35.4	0.6	0.5	9.3
202	Dairy products	E1	30	11	1.3	17.6	0.5	1.1	6.5	37.6	102.7	140.0	3.5	2.6	45.7
2026	Fluid milk	E1	23	8	1.0	14.2	0.4	0.8	4.7	30.2	82.2	112.1	(D)	2.1	34.9
205	Bakery products	-	51	19	2.7	37.2	1.5	2.9	20.8	90.2	55.3	145.5	3.5	3.6	61.7
206	Sugar and confectionery products	E2	21	3	0.4	4.1	0.3	0.6	3.1	11.3	13.8	24.8	0.7	(NA)	(NA)
208	Beverages	-	29	13	1.9	28.2	1.0	2.1	11.7	78.4	77.6	155.0	4.6	2.6	51.4
2086	Bottled and canned soft drinks	-	24	10	1.2	17.3	0.5	0.9	4.6	47.0	42.3	88.4	(D)	(NA)	(NA)
2311	Men's and boys' suits and coats	E1	3	3	0.4	2.5	0.3	0.5	2.0	4.2	0.5	4.7	(Z)	0.6	4.2
233	Women's and misses' outerwear	E3	12	9	1.1	7.5	1.0	1.8	6.3	9.3	1.0	10.3	0.3	0.8	5.4
2337	Women's and misses' suits and coats	E1	6	5	0.7	4.4	0.6	1.1	3.7	5.3	0.5	5.8	(D)	(NA)	(NA)
251	Household furniture	-	24	9	0.6	5.7	0.4	0.8	3.7	10.6	11.7	22.4	1.0	0.9	8.2
26	Paper and allied products	-	37	26	3.1	35.7	2.4	4.7	23.8	78.2	89.3	166.3	4.4	3.8	64.1
264	Miscellaneous converted paper products	-	15	11	1.4	15.2	1.2	2.2	9.7	42.4	30.5	71.5	0.8	(NA)	(NA)
265	Paperboard containers and boxes	-	22	15	1.6	20.5	1.3	2.5	14.1	35.8	58.8	94.8	3.6	2.4	35.5
2653	Corrugated and solid fiber boxes	-	13	9	1.1	14.4	0.8	1.6	9.6	24.7	42.7	67.1	(D)	1.6	23.1
27	Printing and publishing	-	341	76	8.9	121.2	5.2	9.3	67.5	237.3	142.5	378.3	13.8	8.3	138.6
2711	Newspapers	-	47	19	4.1	57.6	1.6	2.9	24.4	123.8	44.8	168.6	7.8	4.0	73.8
273	Books	-	13	5	0.4	3.2	0.2	0.2	1.1	7.4	4.8	12.0	0.3	(NA)	(NA)
275	Commercial printing	-	206	36	3.3	46.0	2.6	4.6	32.9	78.7	78.6	156.0	3.6	2.9	43.4
2752	Commercial printing, lithographic	-	94	31	2.6	38.4	2.0	3.7	27.6	64.2	66.1	129.3	(D)	2.2	34.3
278	Blankbooks and bookbinding	-	11	6	0.5	6.0	0.4	0.9	4.4	12.9	5.1	18.0	0.6	0.5	7.7
279	Printing trade services	E2	32	6	0.3	4.9	0.3	0.5	3.3	7.6	2.0	9.6	0.9	0.4	5.6

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Pittsburgh SMSA—Con.														
28	Chemicals and allied products	–	106	42	6.2	91.2	3.9	7.6	50.2	286.1	600.6	890.6	30.0	6.1	169.2
281	Industrial inorganic chemicals	–	20	8	1.2	18.5	0.7	1.6	11.3	99.4	217.0	313.1	9.4	0.9	63.4
2819	Industrial inorganic chemicals, n.e.c.	–	8	6	0.8	12.9	0.5	1.2	8.4	74.9	201.6	272.9	(D)	0.6	47.7
282	Plastics materials and synthetics	–	8	7	1.3	19.6	0.9	1.8	11.7	59.2	97.5	155.5	6.8	2.0	39.2
2851	Paints and allied products	–	15	8	0.9	12.6	0.5	0.8	5.2	39.2	52.3	90.0	1.8	1.2	24.4
289	Miscellaneous chemical products	–	30	11	0.9	10.1	0.5	0.9	5.8	19.1	38.5	57.6	1.3	0.9	16.8
2899	Chemical preparations, n.e.c.	–	22	7	0.7	7.1	0.4	0.6	4.4	16.6	28.1	44.6	(D)	0.7	11.6
29	Petroleum and coal products	–	30	8	0.8	13.0	0.5	1.1	8.1	27.8	146.4	171.9	2.9	0.8	16.0
299	Miscellaneous petroleum and coal products	–	15	5	0.4	6.6	0.3	0.5	3.9	17.6	64.7	81.9	1.8	0.4	8.2
2992	Lubricating oils and greases	–	9	5	0.3	5.9	0.2	0.5	3.4	14.8	59.8	74.2	1.5	(NA)	(NA)
30	Rubber and miscellaneous plastics products	–	81	31	3.5	40.3	2.8	5.2	28.2	75.4	81.3	157.9	5.0	2.6	36.9
3069	Fabricated rubber products, n.e.c.	E1	8	4	0.3	3.0	0.2	0.5	2.2	6.5	6.4	12.9	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	–	73	27	3.2	37.2	2.5	4.8	26.0	68.9	74.9	145.0	(D)	2.3	32.5
32	Stone, clay, and glass products	–	204	78	13.1	170.3	11.1	21.3	135.3	357.2	265.3	623.3	23.5	14.5	271.0
322	Glass and glassware, pressed or blown	–	20	13	6.0	72.3	5.3	10.0	61.3	148.2	85.3	235.1	11.1	6.1	103.4
3221	Glass containers	–	4	4	2.5	31.7	2.2	4.0	26.9	61.9	48.5	112.6	(D)	(NA)	(NA)
3229	Pressed and blown glass, n.e.c.	–	16	9	3.5	40.6	3.1	5.9	34.4	86.3	36.8	122.5	(D)	(NA)	(NA)
3231	Products of purchased glass	–	21	9	1.9	27.9	1.6	3.0	21.8	68.6	57.4	124.0	1.2	(NA)	(NA)
325	Structural clay products	E1	13	8	0.6	7.4	0.5	1.0	5.7	15.1	11.6	26.8	0.6	0.7	10.5
327	Concrete, gypsum, and plaster products	E1	78	20	1.2	15.4	1.0	1.8	11.5	34.8	41.9	76.3	5.2	1.2	24.1
3271	Concrete block and brick	–	15	5	0.3	3.6	0.2	0.5	2.8	8.4	9.9	18.3	2.7	0.3	5.9
3272	Concrete products, n.e.c.	E3	29	6	0.4	3.8	0.3	0.5	2.7	9.0	5.4	14.2	0.6	0.6	8.7
3273	Ready-mixed concrete	E1	34	9	0.6	8.0	0.4	0.9	6.0	17.4	26.6	43.7	1.9	0.4	9.5
329	Miscellaneous nonmetallic mineral products	–	49	20	1.5	19.8	1.1	2.3	14.5	47.9	38.5	86.0	3.7	1.9	36.8
3291	Abrasive products	–	10	7	0.3	4.5	0.3	0.5	3.1	10.5	10.3	20.4	1.9	0.3	5.6
3295	Minerals, ground or treated	–	12	6	0.3	4.9	0.3	0.6	3.9	11.3	6.3	17.4	0.8	0.4	9.5
3297	Nonclay refractories	–	11	4	0.4	5.1	0.3	0.5	3.5	10.9	14.0	25.1	0.4	(NA)	(NA)
33	Primary metal industries	–	156	99	84.9	1 583.0	68.9	130.7	1 245.5	2 781.0	5 531.5	8 223.8	263.3	87.1	1 607.4
331	Blast furnace and basic steel products	–	56	41	73.5	1 408.4	60.1	113.9	1 118.7	2 443.3	5 069.3	7 424.9	223.2	77.2	1 453.5
3316	Cold finishing of steel shapes	–	12	9	4.3	73.1	3.3	6.3	57.7	148.9	243.6	384.1	11.3	4.7	131.9
332	Iron and steel foundries	–	38	32	6.6	102.7	5.2	10.1	78.5	166.7	167.4	337.9	(D)	6.1	89.9
3321	Gray iron foundries	–	23	20	3.2	49.6	2.6	5.0	38.1	93.7	113.2	206.4	(D)	3.1	54.6
3325	Steel foundries, n.e.c.	–	15	12	3.4	53.1	2.6	5.2	40.4	73.0	54.2	131.5	8.6	(NA)	(NA)
335	Nonferrous rolling and drawing	–	11	7	1.4	20.0	1.0	1.9	14.3	61.9	76.5	134.8	2.3	0.7	9.1
336	Nonferrous foundries	–	20	8	1.0	13.4	0.8	1.4	9.2	19.9	17.6	37.8	1.0	1.1	18.3
3361	Aluminum foundries	–	10	4	0.6	7.6	0.5	0.9	5.9	12.5	10.6	23.4	(D)	0.7	11.5
339	Miscellaneous primary metal products	–	19	7	0.4	5.9	0.3	0.6	3.9	17.1	25.0	42.2	1.1	(NA)	(NA)
34	Fabricated metal products	–	361	150	19.9	303.8	14.5	28.3	206.2	590.6	690.6	1 258.0	23.1	22.9	398.7
341	Metal cans and shipping containers	–	3	3	0.4	4.5	0.4	0.6	3.9	11.5	17.2	28.6	(D)	(NA)	(NA)
344	Fabricated structural metal products	–	157	63	8.9	126.4	6.0	11.1	76.5	245.3	351.5	574.5	7.6	9.7	147.1
3441	Fabricated structural metal	–	53	25	4.3	58.8	3.0	5.4	38.2	109.2	132.3	225.5	2.7	4.8	78.9
3443	Fabricated plate work (boiler shops)	–	28	17	1.9	29.5	1.3	2.6	18.2	56.3	43.2	101.6	3.0	2.3	23.7
3444	Sheet metal work	–	29	9	1.1	17.3	0.6	1.2	9.1	45.2	132.1	169.6	0.7	1.1	21.7
3446	Architectural metal work	–	23	4	0.8	10.3	0.6	1.1	6.5	18.4	19.3	37.3	0.3	0.8	10.0
345	Screw machine products, bolts, etc.	–	24	13	1.8	25.8	1.4	2.7	18.2	44.8	47.9	93.1	4.0	2.1	32.5
3451	Screw machine products	E1	11	5	0.3	3.6	0.2	0.4	2.5	7.6	4.4	12.0	0.5	0.3	4.0
3452	Bolts, nuts, rivets, and washers	–	13	8	1.5	22.2	1.1	2.3	15.7	37.2	43.5	81.2	3.5	1.8	28.5
346	Metal forgings and stampings	–	21	12	3.8	80.6	3.0	6.7	62.5	136.2	155.7	290.5	4.0	3.1	72.0
3469	Metal stampings, n.e.c.	–	9	3	0.3	3.8	0.2	0.5	2.8	9.2	10.9	20.0	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Pittsburgh SMSA—Con.													
34	Fabricated metal products—Con.													
347	Metal services, n.e.c.	–	47	15	0.8	10.0	0.6	1.3	6.7	17.9	22.0	40.7	0.8	0.8	11.4
3471	Plating and polishing	E1	28	7	0.3	4.5	0.3	0.6	3.1	7.8	3.5	11.3	0.3	0.3	3.8
3479	Metal coating and allied services	–	19	8	0.4	5.5	0.3	0.7	3.6	10.1	18.5	29.4	0.6	0.5	7.6
349	Miscellaneous fabricated metal products	–	87	39	3.6	46.8	2.7	5.1	33.1	113.8	84.9	198.7	5.7	4.3	87.1
3493	Steel springs, except wire	–	6	4	0.5	6.4	0.4	0.8	4.9	17.5	15.1	32.2	0.1	(NA)	(NA)
3494	Valves and pipe fittings	–	21	11	1.6	20.2	1.0	2.0	12.6	52.8	35.1	86.8	3.3	1.9	39.5
3498	Fabricated pipe and fittings	–	9	7	0.7	10.9	0.6	1.0	9.2	28.1	19.0	48.7	1.3	0.7	24.3
3499	Fabricated metal products, n.e.c.	E1	33	9	0.5	5.7	0.4	0.8	3.9	9.0	7.7	16.5	0.5	0.4	4.7
35	Machinery, except electrical	–	430	126	23.8	373.0	15.2	29.9	206.9	794.4	541.5	1 330.3	32.0	24.8	544.7
353	Construction and related machinery	–	28	14	2.0	28.5	1.3	2.6	17.7	66.6	57.4	118.8	3.3	1.7	41.8
3532	Mining machinery	–	14	7	1.3	17.9	0.8	1.5	10.3	37.3	43.0	75.8	1.0	1.0	26.1
354	Metalworking machinery	–	101	41	6.2	100.1	4.1	7.9	57.6	222.0	179.3	439.6	11.6	6.5	134.9
3544	Special dies, tools, jigs, and fixtures	–	59	20	1.5	22.8	1.2	2.5	16.9	43.9	22.3	65.3	(D)	1.2	28.2
3545	Machine tool accessories	–	16	6	2.0	33.6	1.1	2.2	17.4	93.8	107.3	204.0	(D)	1.9	37.6
3549	Metalworking machinery, n.e.c.	–	8	6	0.7	8.7	0.4	0.7	4.1	16.0	9.1	26.3	(D)	0.7	13.1
3559	Special industry machinery, n.e.c.	–	13	4	0.3	4.1	0.2	0.5	3.1	15.7	9.5	18.5	(D)	(NA)	(NA)
356	General industrial machinery	–	59	18	6.9	108.4	4.0	7.7	53.9	246.9	145.7	376.1	7.8	6.4	146.6
3569	General industrial machinery, n.e.c.	–	14	4	0.3	3.9	0.2	0.4	2.5	9.2	6.5	15.1	0.4	0.5	9.0
358	Refrigeration and service machinery	–	10	4	0.6	8.7	0.4	0.9	5.6	13.3	13.7	26.6	0.4	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	200	38	2.4	31.9	1.9	3.5	21.9	56.6	31.8	87.7	2.7	2.0	29.7
36	Electric and electronic equipment	–	112	49	15.3	217.2	10.5	20.8	134.1	496.1	287.1	780.4	16.4	18.8	350.9
362	Electrical industrial apparatus	–	28	15	1.4	20.5	0.8	1.5	7.8	40.9	26.2	65.8	0.8	1.8	31.2
3621	Motors and generators	–	9	6	0.8	13.1	0.4	0.8	4.6	26.4	17.0	42.2	0.4	(NA)	(NA)
3622	Industrial controls	–	14	7	0.5	6.0	0.3	0.5	2.3	11.6	7.2	18.7	0.2	(NA)	(NA)
364	Electric lighting and wiring equipment	–	22	10	1.0	9.9	0.8	1.4	6.2	18.1	36.3	55.4	2.1	0.8	14.5
3645	Residential lighting fixtures	–	7	2	0.3	2.3	0.2	0.3	1.3	4.1	5.4	9.6	(D)	(NA)	(NA)
367	Electronic components and accessories	E1	23	6	1.0	12.5	0.6	1.3	6.2	19.1	18.5	38.0	2.7	1.2	14.7
3674	Semiconductors and related devices	–	8	4	0.8	10.8	0.5	1.0	5.2	15.4	15.6	31.5	(D)	(NA)	(NA)
37	Transportation equipment	–	35	14	5.5	85.1	4.0	7.3	53.9	162.7	106.3	259.6	111.7	5.5	80.5
38	Instruments and related products	–	67	20	5.2	66.1	3.3	6.3	37.2	135.6	85.8	211.7	9.8	4.9	82.8
382	Measuring and controlling devices	–	20	6	1.4	15.0	1.0	1.5	9.3	26.8	16.1	44.1	0.5	1.9	30.7
395	Pens, pencils, office and art supplies	–	11	5	0.6	7.1	0.3	0.7	3.7	13.0	13.1	25.6	0.4	(NA)	(NA)
--	Administrative and auxiliary	–	125	78	32.9	744.8	–	–	–	–	–	–	–	(NA)	(NA)
	Reading SMSA	–	667	309	50.1	623.6	37.7	73.7	416.5	1 378.8	1 542.4	2 894.9	85.1	51.8	865.4
20	Food and kindred products	–	76	35	4.0	43.0	3.0	5.9	26.0	115.4	208.7	324.3	6.8	4.2	69.5
202	Dairy products	–	7	5	0.3	4.4	0.1	0.2	1.4	8.5	33.2	41.7	0.4	0.3	5.8
203	Preserved fruits and vegetables	–	7	5	0.5	4.1	0.4	0.7	3.0	18.4	45.3	63.9	1.9	0.6	9.7
205	Bakery products	–	13	6	0.9	10.2	0.6	1.1	5.1	21.8	18.4	40.2	1.4	0.6	8.8
208	Beverages	–	9	5	0.3	4.4	0.1	0.3	1.6	10.8	35.3	45.7	0.6	0.3	6.6
22	Textile mill products	–	52	31	4.3	34.9	3.7	7.0	26.9	58.7	54.8	113.9	3.4	6.6	66.5
225	Knitting mills	–	42	24	2.9	22.9	2.5	4.6	17.3	42.6	42.0	85.0	1.2	5.7	57.8
2252	Hosiery, n.e.c.	–	6	3	1.0	9.0	0.8	1.5	6.1	15.8	14.9	30.7	(D)	1.3	17.0
2253	Knit outerwear mills	–	9	8	0.9	6.7	0.8	1.4	5.5	11.2	11.0	22.1	0.3	1.7	16.1
23	Apparel and other textile products	–	67	49	4.7	32.4	4.0	7.0	25.3	52.8	30.9	83.9	1.2	4.6	40.3
232	Men's and boys' furnishings	–	15	14	1.4	10.1	1.2	2.2	7.7	14.5	12.5	27.9	0.2	1.4	10.1
233	Women's and misses' outerwear	–	28	23	2.0	13.4	1.8	3.0	11.0	20.4	8.3	28.6	0.7	1.7	18.0
2331	Women's and misses' blouses and waists	–	12	12	1.4	9.6	1.3	2.2	8.0	15.8	6.9	22.4	0.6	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	–	7	5	0.3	2.3	0.3	0.4	1.8	2.9	1.0	3.8	0.1	0.5	3.6
234	Women's and children's undergarments	E1	9	6	0.5	2.5	0.3	0.5	1.7	3.8	4.5	8.1	(D)	0.7	5.6
2341	Women's and children's underwear	E1	9	6	0.5	2.5	0.3	0.5	1.7	3.8	4.5	8.1	(D)	0.7	5.6

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Reading SMSA—Con.													
26	Paper and allied products	–	14	10	1.5	20.5	1.1	2.3	14.3	38.2	50.2	88.6	1.6	1.2	21.1
265	Paperboard containers and boxes	E1	8	5	0.8	11.5	0.6	1.2	8.1	20.6	27.3	47.6	0.6	0.8	14.6
275	Commercial printing	–	34	4	0.3	3.8	0.2	0.4	2.4	7.3	2.8	10.2	(D)	0.7	8.1
28	Chemicals and allied products	–	25	6	1.3	16.4	0.6	1.2	7.2	58.3	85.3	143.3	4.1	1.4	48.1
30	Rubber and miscellaneous plastics products	–	14	11	1.8	21.3	1.3	2.7	12.9	49.4	41.4	89.7	3.9	1.3	23.6
32	Stone, clay, and glass products	–	28	7	0.9	12.3	0.7	1.4	9.3	45.0	39.1	81.6	2.1	0.8	18.0
33	Primary metal industries	–	39	30	7.6	123.3	5.4	10.7	80.9	265.4	436.5	691.0	22.0	6.5	182.3
332	Iron and steel foundries	–	14	14	2.9	34.5	2.3	4.4	24.9	59.7	34.6	94.4	3.3	1.6	20.9
335	Nonferrous rolling and drawing	–	9	8	1.3	20.9	0.9	1.9	13.1	48.5	104.9	151.7	0.7	1.1	32.9
34	Fabricated metal products	–	65	25	2.4	28.4	1.9	3.8	20.2	66.0	65.5	132.0	3.2	2.4	40.5
342	Cutlery, hand tools, and hardware	–	6	3	0.6	6.3	0.6	1.1	5.2	9.4	9.9	20.4	0.2	0.5	6.6
344	Fabricated structural metal products	–	26	9	0.5	7.3	0.4	0.8	4.9	17.0	17.1	34.2	0.5	0.7	11.7
35	Machinery, except electrical	–	84	21	3.3	42.6	2.5	5.0	29.4	85.1	57.7	140.7	3.7	5.2	66.0
354	Metalworking machinery	–	14	2	0.3	3.6	0.2	0.4	2.3	6.3	3.3	9.4	0.5	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	42	8	0.5	6.0	0.4	0.7	4.1	11.4	4.1	15.2	0.9	0.3	4.8
3599	Machinery, except electrical, n.e.c.	E1	42	8	0.5	6.0	0.4	0.7	4.1	11.4	4.1	15.2	0.9	0.3	4.8
36	Electric and electronic equipment	–	29	16	7.0	99.2	5.5	11.5	70.5	246.4	224.7	465.3	26.7	5.5	123.6
362	Electrical industrial apparatus	–	5	4	0.4	4.3	0.3	0.6	3.1	9.6	8.4	17.9	(D)	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	–	7	6	2.1	27.7	1.7	3.8	20.6	80.8	117.1	196.8	(D)	(NA)	(NA)
399	Miscellaneous manufactures	–	13	6	0.8	7.3	0.6	1.0	5.4	14.9	11.8	26.4	0.3	(NA)	(NA)
--	Administrative and auxiliary	–	19	16	1.7	26.3	–	–	–	–	–	–	–	(NA)	(NA)
	Williamsport SMSA	–	**202**	**95**	**17.5**	**202.7**	**13.2**	**25.2**	**136.4**	**515.4**	**452.8**	**958.0**	**(D)**	**18.7**	**306.6**
20	Food and kindred products	–	23	14	1.3	13.4	0.9	2.1	8.9	60.8	67.7	129.2	1.8	1.2	33.3
22	Textile mill products	E1	9	7	0.8	6.6	0.7	1.3	4.8	10.6	14.3	24.8	(D)	(NA)	(NA)
23	Apparel and other textile products	E1	12	10	1.4	8.9	1.2	2.2	6.8	15.8	16.8	32.7	0.1	2.1	15.3
24	Lumber and wood products	–	35	7	0.7	6.7	0.6	1.1	4.7	15.3	30.0	44.5	0.7	0.6	7.6
245	Wood buildings and mobile homes	–	3	3	0.3	3.5	0.3	0.4	2.3	7.3	14.2	21.6	0.3	(NA)	(NA)
26	Paper and allied products	–	7	5	0.7	7.4	0.5	1.0	4.6	15.9	15.9	31.5	0.9	0.8	11.7
27	Printing and publishing	–	24	3	0.5	6.0	0.3	0.5	3.0	15.6	8.2	23.8	0.5	0.6	11.4
32	Stone, clay, and glass products	–	9	3	0.3	3.0	0.2	0.4	1.9	6.8	7.5	14.4	0.5	(NA)	(NA)
34	Fabricated metal products	–	18	13	1.7	23.3	1.1	2.1	13.1	60.6	45.7	102.8	1.7	1.5	21.1
344	Fabricated structural metal products	–	9	5	0.5	6.0	0.4	0.7	4.1	13.5	8.3	20.7	0.2	0.4	5.4
35	Machinery, except electrical	–	17	5	1.6	20.3	0.9	1.9	10.1	42.7	41.7	84.7	(D)	1.4	21.1
	York SMSA	–	**734**	**342**	**59.0**	**716.0**	**45.3**	**88.2**	**471.5**	**1 517.5**	**1 579.0**	**3 041.0**	**86.7**	**(NA)**	**(NA)**
20	Food and kindred products	–	93	36	4.6	44.7	3.3	6.5	27.4	123.5	251.3	374.8	6.9	(NA)	(NA)
202	Dairy products	E1	7	4	0.4	4.6	0.2	0.4	1.8	9.1	29.5	38.7	0.3	(NA)	(NA)
203	Preserved fruits and vegetables	–	13	9	2.1	18.0	1.7	3.3	12.8	58.2	103.0	161.4	2.6	(NA)	(NA)
204	Grain mill products	E1	20	3	0.3	3.1	0.2	0.4	1.9	9.4	53.9	63.3	0.2	(NA)	(NA)
205	Bakery products	–	14	6	0.7	6.9	0.4	0.8	3.6	13.4	14.1	27.6	1.6	(NA)	(NA)
206	Sugar and confectionery products	–	8	4	0.3	2.5	0.2	0.4	2.0	12.6	9.7	22.2	0.3	(NA)	(NA)
2065	Confectionery products	–	8	4	0.3	2.5	0.2	0.4	2.0	12.6	9.7	22.2	0.3	(NA)	(NA)
209	Miscellaneous foods and kindred products	–	15	6	0.6	6.9	0.5	0.9	3.9	13.9	23.0	36.8	0.7	(NA)	(NA)
2099	Food preparations, n.e.c.	–	9	6	0.6	6.6	0.4	0.8	3.7	13.3	22.1	35.3	(D)	(NA)	(NA)
2121	Cigars	–	9	5	0.5	3.4	0.4	0.8	2.7	7.5	5.8	11.1	(D)	(NA)	(NA)
22	Textile mill products	E4	18	12	3.6	29.1	3.2	6.3	24.3	61.8	50.3	111.1	1.4	(NA)	(NA)
2221	Weaving mills, manmade fiber and silk	–	4	4	0.5	4.8	0.4	0.9	4.3	6.8	8.8	15.7	0.2	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	York SMSA—Con.													
23	Apparel and other textile products	-	58	41	4.2	26.0	3.9	6.5	22.0	39.1	26.0	63.4	0.7	(NA)	(NA)
233	Women's and misses' outerwear	E1	30	24	2.1	12.6	2.0	3.1	11.2	16.4	3.1	19.3	0.2	(NA)	(NA)
2331	Women's and misses' blouses and waists	-	6	6	0.4	2.7	0.4	0.6	2.4	3.4	0.5	3.8	0.1	(NA)	(NA)
2335	Women's and misses' dresses	E2	17	13	1.3	7.8	1.2	2.0	6.9	9.9	2.4	12.3	0.1	(NA)	(NA)
236	Children's outerwear	-	10	9	0.8	5.4	0.8	1.2	4.0	7.2	7.9	15.2	0.1	(NA)	(NA)
24	Lumber and wood products	-	57	19	1.2	11.7	1.0	2.1	9.0	24.4	24.1	48.5	1.6	(NA)	(NA)
243	Millwork, plywood, and structural members	-	17	10	0.8	7.8	0.7	1.4	6.1	18.6	15.0	33.6	0.7	(NA)	(NA)
25	Furniture and fixtures	-	33	16	2.4	28.4	2.0	4.0	21.6	59.6	43.9	99.4	1.9	(NA)	(NA)
251	Household furniture	-	20	11	0.7	6.0	0.6	1.4	4.9	13.1	10.1	22.9	(D)	(NA)	(NA)
2511	Wood household furniture	-	16	8	0.5	4.5	0.5	1.1	3.8	10.5	8.2	18.5	(D)	(NA)	(NA)
26	Paper and allied products	-	30	24	3.5	49.4	2.8	6.1	35.4	110.9	138.9	249.1	8.0	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	8	7	1.0	11.4	0.8	1.6	7.6	23.4	38.8	62.0	1.8	(NA)	(NA)
27	Printing and publishing	-	68	27	3.9	45.2	3.1	5.9	34.1	86.8	59.6	146.3	6.0	(NA)	(NA)
2711	Newspapers	-	4	4	0.6	5.8	0.3	0.5	3.4	13.1	3.4	16.5	(D)	(NA)	(NA)
273	Books	-	6	4	0.7	7.1	0.6	1.1	6.0	10.7	7.2	17.5	(D)	(NA)	(NA)
275	Commercial printing	-	38	9	1.3	12.9	1.0	1.9	9.0	19.1	12.4	31.3	1.5	(NA)	(NA)
2751	Commercial printing, letterpress	-	20	4	0.5	6.0	0.3	0.6	3.6	10.0	6.5	16.4	(D)	(NA)	(NA)
279	Printing trade services	-	10	5	0.6	8.2	0.5	1.1	6.9	11.4	2.1	13.0	0.7	(NA)	(NA)
2791	Typesetting	-	7	5	0.6	8.0	0.5	1.1	6.8	11.3	1.8	12.6	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	18	7	0.9	8.9	0.8	1.5	6.5	13.2	14.2	27.6	0.5	(NA)	(NA)
31	Leather and leather products	-	15	10	2.4	16.2	2.3	4.4	14.6	31.6	36.8	68.0	0.9	(NA)	(NA)
3131	Boot and shoe cut stock and findings	E4	6	3	0.3	1.7	0.2	0.4	1.3	2.9	4.5	7.3	(D)	(NA)	(NA)
3143	Men's footwear, except athletic	-	4	4	1.3	9.1	1.2	2.4	8.6	16.3	24.8	41.0	0.2	(NA)	(NA)
32	Stone, clay, and glass products	-	32	12	1.6	19.0	1.3	2.6	15.0	52.4	42.5	93.9	4.8	(NA)	(NA)
325	Structural clay products	-	5	3	0.3	2.6	0.3	0.5	2.3	6.6	4.6	11.0	(D)	(NA)	(NA)
327	Concrete, gypsum, and plaster products	-	17	5	0.3	4.7	0.3	0.6	3.5	13.7	13.9	27.5	2.9	(NA)	(NA)
33	Primary metal industries	-	26	18	3.8	44.8	2.8	5.2	29.7	89.8	92.5	186.6	3.1	(NA)	(NA)
332	Iron and steel foundries	-	4	4	0.7	7.3	0.6	1.0	5.9	9.9	8.9	18.4	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing	-	4	4	0.7	7.6	0.5	1.1	5.4	14.6	30.7	44.5	0.4	(NA)	(NA)
336	Nonferrous foundries	-	9	5	0.6	6.5	0.5	0.9	4.5	12.7	6.4	19.3	0.5	(NA)	(NA)
3361	Aluminum foundries	-	9	5	0.6	6.5	0.5	0.9	4.5	12.7	6.4	19.3	0.5	(NA)	(NA)
34	Fabricated metal products	-	56	27	3.3	41.5	2.5	5.0	28.5	85.2	110.3	198.4	4.9	(NA)	(NA)
344	Fabricated structural metal products	-	17	8	1.0	11.9	0.7	1.4	7.5	22.1	28.2	50.8	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	14	6	0.6	6.9	0.5	1.0	5.1	10.8	17.7	31.5	0.6	(NA)	(NA)
35	Machinery, except electrical	-	115	40	11.5	196.8	7.8	15.4	111.8	353.0	319.4	659.5	30.6	(NA)	(NA)
353	Construction and related machinery	-	13	11	3.8	68.2	2.8	5.6	48.5	171.9	123.2	290.9	(D)	(NA)	(NA)
354	Metalworking machinery	E1	25	5	0.4	4.7	0.3	0.5	3.1	7.3	3.4	10.6	(D)	(NA)	(NA)
355	Special industry machinery	-	10	6	0.7	10.1	0.5	1.1	6.3	20.4	12.6	32.2	0.3	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E3	46	8	0.5	6.0	0.4	0.8	4.1	8.8	5.3	14.1	0.7	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E3	46	8	0.5	6.0	0.4	0.8	4.1	8.8	5.3	14.1	0.7	(NA)	(NA)
36	Electric and electronic equipment	-	30	21	4.3	56.4	3.4	6.3	34.9	153.3	108.7	260.5	6.1	(NA)	(NA)
362	Electrical industrial apparatus	-	9	9	1.9	25.5	1.4	2.4	15.5	62.0	56.9	117.6	(D)	(NA)	(NA)
37	Transportation equipment	-	19	7	3.6	47.1	2.9	6.1	37.3	166.8	180.3	310.1	6.4	(NA)	(NA)
--	Administrative and auxiliary	-	20	9	1.3	18.3	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Adams County	-	129	57	6.9	60.1	5.6	10.8	42.6	152.6	200.2	352.1	7.2	6.7	92.7
20	Food and kindred products	-	21	8	1.5	13.4	1.2	2.4	9.7	47.4	100.5	147.9	2.5	1.2	26.7
23	Apparel and other textile products	E2	15	9	0.6	3.8	0.6	1.0	3.2	6.5	3.8	10.3	0.1	0.6	4.2
27	Printing and publishing	E1	11	5	0.5	4.7	0.4	0.7	3.3	10.2	6.2	16.0	1.4	(NA)	(NA)
31	Leather and leather products	-	5	5	1.1	7.2	1.1	2.1	6.4	15.9	11.8	27.5	(D)	1.4	13.1
	Allegheny County	-	1 736	586	150.3	2 629.1	87.0	165.4	1 307.1	3 957.1	5 822.9	9 676.7	226.1	169.8	2 402.3
20	Food and kindred products	-	121	48	7.8	103.8	4.8	9.3	58.6	283.5	360.0	640.1	13.8	11.1	233.0
202	Dairy products	E1	21	8	1.1	13.9	0.4	0.9	5.3	30.2	84.0	113.9	(D)	2.1	39.0
265	Paperboard containers and boxes	E1	11	6	0.7	9.3	0.5	1.1	6.2	15.5	26.5	41.3	1.8	1.2	14.8
27	Printing and publishing	-	267	57	6.9	101.1	4.3	7.8	58.7	198.8	122.6	319.9	11.4	6.2	111.0
2711	Newspapers	-	29	8	2.9	46.6	1.2	2.2	20.5	102.0	36.6	138.6	(D)	(NA)	(NA)
275	Commercial printing	-	159	31	2.7	39.0	2.2	3.9	28.5	65.7	68.9	133.5	3.2	2.3	33.3
2752	Commercial printing, lithographic	-	75	26	2.1	32.1	1.7	3.1	23.7	52.8	57.3	109.1	(D)	(NA)	(NA)
278	Blankbooks and bookbinding	-	11	6	0.5	6.0	0.4	0.9	4.4	12.9	5.1	18.0	0.6	0.5	7.6
28	Chemicals and allied products	-	80	29	3.9	56.9	2.5	4.9	30.2	176.5	276.3	446.6	16.0	4.0	85.8
282	Plastics materials and synthetics	-	8	7	1.3	19.6	0.9	1.8	11.7	59.2	97.5	155.5	6.8	(NA)	(NA)
289	Miscellaneous chemical products	-	23	8	0.6	8.4	0.4	0.8	5.2	15.3	31.3	46.2	1.0	(NA)	(NA)
29	Petroleum and coal products	-	19	5	0.5	8.0	0.3	0.7	4.6	21.5	87.2	107.9	2.3	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	44	13	1.6	16.0	1.2	2.2	9.6	28.5	28.1	56.1	1.7	1.6	22.1
32	Stone, clay, and glass products	-	115	34	4.3	59.5	3.5	6.7	44.7	132.7	128.0	260.8	10.1	5.2	115.3
327	Concrete, gypsum, and plaster products	E2	41	10	0.6	7.6	0.4	0.8	5.3	15.8	22.2	37.9	3.3	0.7	15.5
329	Miscellaneous nonmetallic mineral products	-	39	13	0.9	11.9	0.7	1.4	8.5	26.7	26.9	53.4	2.7	1.3	24.0
33	Primary metal industries	-	73	39	43.5	823.0	35.5	66.1	642.6	1 605.9	3 535.7	5 082.5	102.7	45.5	747.1
331	Blast furnace and basic steel products	-	20	13	39.3	755.8	32.3	60.2	594.1	1 466.3	3 347.8	4 754.4	92.2	41.5	688.3
332	Iron and steel foundries	-	13	11	2.3	40.0	1.8	3.4	30.6	61.5	86.0	151.6	6.4	2.6	40.1
336	Nonferrous foundries	-	11	5	0.5	5.4	0.3	0.5	2.9	6.2	6.3	12.4	(D)	(NA)	(NA)
34	Fabricated metal products	-	249	100	13.4	213.5	9.7	19.2	145.6	415.4	518.7	922.7	16.1	15.6	281.7
344	Fabricated structural metal products	-	109	41	5.3	75.4	3.5	6.6	44.2	142.1	259.3	391.5	5.0	6.0	85.2
3441	Fabricated structural metal	-	37	16	2.1	27.2	1.5	2.7	18.1	45.7	76.5	118.5	1.5	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	-	17	11	1.4	22.6	1.0	1.9	13.9	44.6	35.9	81.4	2.6	(NA)	(NA)
345	Screw machine products, bolts, etc.	E1	14	6	0.6	7.4	0.4	0.9	5.2	17.2	11.2	27.8	2.0	0.7	12.2
346	Metal forgings and stampings	-	16	9	3.6	76.9	2.8	6.2	59.8	127.4	144.6	270.2	(D)	(NA)	(NA)
35	Machinery, except electrical	-	241	62	14.7	236.2	9.6	18.8	130.8	452.0	309.0	765.5	18.5	17.5	393.2
354	Metalworking machinery	-	48	21	3.5	58.2	2.3	4.3	32.4	106.9	68.6	213.4	7.1	4.4	83.9
3547	Rolling mill machinery	-	8	4	1.8	32.3	1.2	2.2	17.2	63.3	38.7	137.2	(D)	(NA)	(NA)
3549	Metalworking machinery, n.e.c.	-	8	6	0.7	8.7	0.4	0.7	4.1	16.0	9.1	26.3	(D)	(NA)	(NA)
355	Special industry machinery	-	16	5	0.9	11.3	0.7	1.1	7.7	21.4	25.4	44.4	1.2	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E3	106	10	0.8	10.4	0.6	1.2	7.0	18.8	8.9	27.4	1.2	0.7	12.4
36	Electric and electronic equipment	-	80	33	7.3	106.0	4.7	8.8	58.2	230.4	134.6	359.0	10.7	8.2	147.5
395	Pens, pencils, office and art supplies	-	11	5	0.6	7.1	0.3	0.7	3.7	13.0	13.1	25.6	0.4	0.6	9.2
--	Administrative and auxiliary	-	104	68	31.0	707.4	-	-	-	-	-	-	-	(NA)	(NA)
	Armstrong County	-	79	34	4.9	63.1	3.9	7.6	45.2	133.0	116.9	247.8	8.1	4.2	87.3
28	Chemicals and allied products	-	5	4	0.5	8.2	0.4	0.9	5.0	18.2	14.9	34.1	(D)	0.5	11.9
32	Stone, clay, and glass products	-	15	13	2.1	28.5	1.7	3.2	21.6	58.1	34.5	92.2	2.3	2.2	40.4
325	Structural clay products	-	7	7	0.5	6.6	0.4	0.8	4.7	14.7	7.5	22.1	(D)	0.5	8.8

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Beaver County	-	186	77	35.7	628.8	27.9	53.9	476.9	987.2	1 502.3	2 468.2	138.4	36.5	734.4
27	Printing and publishing	-	14	3	0.5	3.8	0.1	0.1	0.8	7.2	2.1	9.2	0.5	(NA)	(NA)
32	Stone, clay, and glass products	-	23	9	1.8	22.9	1.5	3.0	17.4	49.0	25.4	74.0	2.5	1.9	29.7
33	Primary metal industries	-	24	19	24.9	473.5	20.4	39.6	378.1	646.2	1 152.4	1 783.3	119.8	24.9	509.1
331	Blast furnace and basic steel products	-	11	10	22.4	435.0	18.5	36.2	352.4	574.1	1 037.3	1 597.0	(D)	22.7	472.6
3312	Blast furnaces and steel mills	-	5	5	21.5	420.6	17.8	34.9	341.2	544.9	965.7	1 496.5	(D)	(NA)	(NA)
34	Fabricated metal products	-	24	14	2.8	42.4	2.0	3.5	27.9	84.8	73.8	147.8	1.7	3.4	57.0
344	Fabricated structural metal products	-	10	5	2.1	32.4	1.4	2.4	21.0	68.4	57.2	113.2	0.6	2.5	43.3
35	Machinery, except electrical	E1	24	8	0.5	7.7	0.4	0.9	6.1	20.8	6.2	27.2	2.1	(NA)	(NA)
	Bedford County	-	50	18	2.0	21.5	1.5	2.9	14.8	53.5	95.1	144.4	3.4	2.5	37.3
	Berks County (Coextensive with Reading, Pa., SMSA; see table 6.)														
	Blair County (Coextensive with Altoona, Pa., SMSA; see table 6.)														
	Bradford County	-	79	31	6.0	73.5	4.5	9.3	47.3	239.7	203.8	441.3	13.6	5.5	109.5
20	Food and kindred products	-	10	4	0.5	5.3	0.3	0.6	3.6	14.7	54.3	69.0	0.3	(NA)	(NA)
	Bucks County	-	1 046	388	49.2	696.2	35.3	69.6	440.3	1 394.8	1 738.0	3 120.6	73.9	46.3	860.4
20	Food and kindred products	-	46	22	1.9	22.7	1.4	2.6	14.2	59.0	114.9	174.6	2.1	1.7	24.0
22	Textile mill products	E1	24	15	1.0	7.9	0.8	1.5	6.1	15.6	17.8	34.1	0.6	1.4	15.1
23	Apparel and other textile products	-	31	19	2.1	17.4	1.7	3.2	12.6	33.8	38.4	72.3	0.2	2.9	28.2
233	Women's and misses' outerwear	-	14	9	1.0	8.3	0.7	1.3	4.8	22.7	24.8	47.6	0.1	0.9	5.8
25	Furniture and fixtures	-	29	11	0.8	8.2	0.6	1.1	5.5	16.1	9.8	25.3	0.5	0.6	6.6
26	Paper and allied products	-	37	24	3.1	40.7	2.3	4.7	26.3	119.1	138.9	255.0	5.3	2.9	67.6
2641	Paper coating and glazing	-	7	5	1.1	16.6	0.8	1.7	11.3	71.4	62.7	131.6	1.9	(NA)	(NA)
265	Paperboard containers and boxes	-	17	11	1.0	14.2	0.7	1.6	9.3	28.7	48.6	77.4	1.3	1.0	15.1
2653	Corrugated and solid fiber boxes	-	9	5	0.5	8.1	0.4	0.8	4.7	14.3	20.7	35.1	0.7	(NA)	(NA)
27	Printing and publishing	-	94	26	2.5	28.2	1.7	3.1	17.2	62.8	40.5	103.0	11.1	1.7	26.1
2761	Manifold business forms	-	8	6	0.5	7.0	0.3	0.8	4.6	19.0	17.1	35.8	0.6	(NA)	(NA)
28	Chemicals and allied products	-	39	15	2.8	43.2	1.8	3.7	24.8	162.5	226.4	390.3	11.6	3.8	98.6
30	Rubber and miscellaneous plastics products	-	60	29	2.3	25.0	1.8	3.5	17.4	48.5	44.8	93.2	3.9	2.1	28.4
3079	Miscellaneous plastics products	-	54	25	1.9	19.8	1.5	2.9	13.6	40.3	40.0	80.2	3.6	(NA)	(NA)
32	Stone, clay, and glass products	E1	52	20	1.8	22.6	1.4	2.7	16.2	40.5	41.0	81.8	3.6	1.9	29.1
3231	Products of purchased glass	-	8	3	0.6	7.5	0.4	0.8	5.5	13.4	18.1	31.6	(D)	(NA)	(NA)
327	Concrete, gypsum, and plaster products	E2	24	9	0.5	6.8	0.4	0.8	4.6	12.8	12.9	25.9	1.5	0.5	11.0
34	Fabricated metal products	E1	123	51	4.2	56.8	3.2	6.5	39.0	128.6	178.8	303.9	6.5	3.8	70.7
344	Fabricated structural metal products	E3	40	17	0.9	11.6	0.7	1.4	7.1	24.0	29.4	54.6	1.4	1.1	21.9
349	Miscellaneous fabricated metal products	-	27	10	1.0	12.5	0.8	1.5	8.3	26.1	18.6	43.9	2.2	0.7	13.4
35	Machinery, except electrical	E1	233	54	5.0	71.3	3.4	6.9	42.9	137.9	90.7	226.6	5.8	3.8	65.1
354	Metalworking machinery	-	55	10	0.8	13.6	0.6	1.4	10.2	20.9	8.3	28.6	1.1	0.6	11.2
3544	Special dies, tools, jigs, and fixtures	-	49	9	0.7	12.4	0.5	1.3	9.2	18.9	7.4	25.8	(D)	(NA)	(NA)
356	General industrial machinery	-	27	10	1.5	21.3	0.9	1.9	12.1	46.5	32.6	78.5	1.4	1.1	18.5
358	Refrigeration and service machinery	-	7	4	0.6	7.7	0.3	0.7	4.2	18.2	14.1	32.2	0.3	(NA)	(NA)
36	Electric and electronic equipment	-	76	33	4.3	53.5	3.0	5.7	31.0	104.2	126.1	228.6	4.5	3.6	56.0
364	Electric lighting and wiring equipment	-	12	7	1.1	11.4	0.8	1.7	7.2	30.0	52.7	82.9	1.5	1.6	25.7
366	Communication equipment	E1	15	8	0.7	8.7	0.5	0.9	4.7	15.4	11.8	26.4	0.6	(NA)	(NA)
367	Electronic components and accessories	E2	27	9	0.8	8.2	0.7	1.3	5.2	16.6	10.2	26.7	1.3	0.5	7.2

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Bucks County—Con.														
37	Transportation equipment	-	20	7	0.9	12.3	0.7	1.5	8.4	24.2	32.4	57.2	1.4	1.9	66.4
38	Instruments and related products	-	43	16	4.8	69.2	3.2	7.3	39.5	120.2	50.4	167.7	4.5	4.2	70.9
382	Measuring and controlling devices	-	18	10	4.5	64.9	2.9	6.8	37.1	110.5	44.0	151.6	(D)	3.5	58.0
39	Miscellaneous manufacturing industries	E1	39	13	0.8	8.7	0.7	1.2	5.9	16.4	13.0	29.3	0.6	0.5	8.1
399	Miscellaneous manufactures	E1	22	9	0.5	5.5	0.4	0.6	3.6	11.1	8.5	19.5	0.4	(NA)	(NA)
--	Administrative and auxiliary	-	14	8	1.5	32.4	-	-	-	-	-	-	-	(NA)	(NA)
	Butler County	-	200	85	14.1	222.8	10.7	20.8	155.7	472.0	685.0	1 150.1	49.8	13.2	241.8
28	Chemicals and allied products	-	12	7	0.8	10.0	0.6	1.2	6.8	39.4	42.8	83.3	(D)	0.7	19.5
30	Rubber and miscellaneous plastics products	-	6	4	0.5	4.7	0.3	0.6	3.3	9.2	6.5	15.7	0.2	0.5	6.3
32	Stone, clay, and glass products	-	30	12	1.3	17.4	1.1	2.1	12.7	44.5	35.3	80.0	4.7	1.3	27.5
34	Fabricated metal products	-	24	11	0.7	8.1	0.5	1.0	4.6	19.9	22.5	42.0	1.1	0.6	7.7
35	Machinery, except electrical	-	37	18	1.5	21.6	1.0	2.0	11.4	38.0	39.1	79.6	6.3	1.5	25.4
	Cambria County	-	169	61	16.6	257.1	13.0	22.3	187.7	386.2	499.1	922.5	23.7	19.2	296.8
23	Apparel and other textile products	E1	19	16	1.9	11.0	1.8	2.9	9.8	16.9	11.0	27.6	0.2	2.0	18.6
232	Men's and boys' furnishings	E1	3	3	0.5	3.0	0.5	0.8	2.8	4.8	5.5	10.0	(D)	(NA)	(NA)
2321	Men's and boys' shirts and nightwear	E1	3	3	0.5	3.0	0.5	0.8	2.8	4.8	5.5	10.0	(D)	(NA)	(NA)
	Cameron County	-	23	7	1.2	14.6	1.0	2.0	11.5	27.2	14.0	41.1	1.9	1.5	23.2
	Carbon County	-	113	53	7.1	61.3	6.2	10.8	48.6	131.0	138.5	266.9	16.1	6.9	88.0
2331	Women's and misses' blouses and waists	-	21	19	1.7	10.2	1.6	2.5	9.2	12.2	0.8	13.0	0.5	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	-	8	7	1.1	7.2	1.1	1.8	6.3	10.0	1.0	10.7	0.3	(NA)	(NA)
33	Primary metal industries	-	8	6	1.6	21.4	1.4	2.6	16.6	40.4	83.5	122.1	6.2	1.3	20.7
	Centre County	-	109	41	6.9	73.5	5.4	10.6	52.9	170.6	157.9	325.8	6.8	6.7	127.1
27	Printing and publishing	-	20	6	0.6	4.8	0.4	0.7	2.9	10.5	4.3	14.8	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	8	7	1.3	17.1	1.0	1.9	12.4	44.3	30.0	73.1	2.4	1.3	45.4
36	Electric and electronic equipment	-	11	6	1.4	11.3	1.1	2.4	8.0	19.0	11.4	30.3	0.7	1.3	13.3
38	Instruments and related products	-	11	4	0.5	4.2	0.4	0.7	2.7	7.9	5.4	13.1	0.7	(NA)	(NA)
	Chester County	-	511	215	35.2	491.9	23.1	45.0	275.8	1 067.5	1 103.0	2 159.2	68.9	34.3	661.9
20	Food and kindred products	-	39	18	3.5	38.3	2.9	5.9	30.0	101.2	172.1	273.3	5.4	3.8	68.0
203	Preserved fruits and vegetables	-	12	8	1.8	16.0	1.6	3.2	13.5	41.8	78.6	120.5	2.1	1.9	33.8
23	Apparel and other textile products	E1	19	10	0.7	3.9	0.6	1.0	3.3	6.9	8.7	14.8	0.3	1.1	5.8
26	Paper and allied products	-	19	13	1.2	15.8	1.0	2.0	11.6	30.9	40.0	70.8	1.4	1.3	23.4
27	Printing and publishing	-	56	12	2.8	35.9	1.7	3.1	20.3	71.8	47.0	119.1	4.2	2.0	34.6
275	Commercial printing	-	36	5	1.3	18.1	0.9	1.7	12.1	35.0	31.4	66.1	3.3	1.3	25.7
2751	Commercial printing, letterpress	-	22	1	0.5	4.6	0.3	0.6	2.7	8.6	4.9	13.4	(D)	(NA)	(NA)
28	Chemicals and allied products	-	29	15	2.7	37.4	2.3	4.2	29.8	230.8	109.6	339.5	10.3	2.8	170.4
30	Rubber and miscellaneous plastics products	-	19	15	2.1	27.3	1.6	3.2	18.4	60.7	77.6	136.4	6.1	1.4	25.3
32	Stone, clay, and glass products	-	27	9	0.7	9.4	0.5	1.1	6.5	19.8	18.7	38.5	1.9	1.2	22.7
331	Blast furnace and basic steel products	-	8	7	5.1	96.6	3.3	6.6	58.0	158.4	195.6	355.1	(D)	5.6	119.7
34	Fabricated metal products	E1	59	24	2.2	32.8	1.6	3.3	20.4	67.3	67.0	136.5	2.9	2.6	56.2
344	Fabricated structural metal products	-	21	9	1.2	19.8	0.8	1.6	11.8	41.1	46.8	90.4	1.9	1.0	24.3
349	Miscellaneous fabricated metal products	-	17	8	0.5	6.0	0.4	0.8	4.4	10.7	10.5	21.1	0.5	(NA)	(NA)
355	Special industry machinery	-	12	7	0.5	7.2	0.3	0.6	3.8	14.8	8.3	23.8	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	37	14	2.0	20.2	1.6	2.9	12.7	45.2	37.2	81.9	3.3	3.2	30.3
38	Instruments and related products	-	13	7	0.9	13.3	0.5	1.2	6.7	41.2	30.8	70.7	(D)	0.7	16.0
--	Administrative and auxiliary	-	27	16	2.5	47.5	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Clarion County	-	**55**	**17**	**2.6**	**31.8**	**2.2**	**4.3**	**25.3**	**79.0**	**60.4**	**139.5**	**5.7**	**2.7**	**50.3**
24	Lumber and wood products	-	20	5	0.5	5.0	0.4	0.7	3.6	9.1	18.2	27.3	1.3	0.6	7.2
	Clearfield County	-	**134**	**51**	**7.2**	**69.3**	**5.8**	**11.2**	**51.1**	**123.2**	**232.4**	**356.2**	**7.9**	**5.7**	**82.2**
23	Apparel and other textile products	-	15	13	1.7	11.2	1.5	2.6	9.1	16.0	27.8	44.2	0.3	1.3	8.8
232	Men's and boys' furnishings	E2	6	6	0.8	4.4	0.7	1.2	3.8	5.6	2.9	8.6	0.1	0.7	4.9
32	Stone, clay, and glass products	-	17	8	0.9	11.4	0.6	1.3	7.9	18.2	20.3	38.2	2.0	1.1	16.2
325	Structural clay products	-	7	6	0.8	10.3	0.6	1.2	7.2	15.7	17.1	32.5	1.7	0.7	11.8
34	Fabricated metal products	-	12	5	0.5	6.9	0.4	0.9	4.7	17.8	12.0	29.1	1.3	(NA)	(NA)
	Clinton County	-	**50**	**22**	**6.1**	**72.0**	**5.0**	**9.8**	**53.8**	**111.2**	**177.4**	**279.2**	**12.0**	**8.2**	**75.3**
22	Textile mill products	-	3	3	1.1	9.0	1.0	2.1	7.5	14.5	29.3	42.4	(D)	(NA)	(NA)
	Columbia County	-	**128**	**62**	**8.5**	**82.7**	**6.9**	**13.2**	**59.7**	**168.0**	**204.3**	**368.0**	**8.1**	**11.7**	**149.7**
20	Food and kindred products	-	20	4	1.6	18.0	1.1	2.4	11.3	41.0	59.3	100.6	(D)	1.8	38.9
22	Textile mill products	-	16	13	1.8	15.9	1.6	3.5	12.7	24.2	39.2	63.7	0.7	3.3	29.4
2221	Weaving mills, manmade fiber and silk	-	4	4	0.6	5.6	0.6	1.4	4.6	9.2	12.2	21.4	(D)	(NA)	(NA)
23	Apparel and other textile products	E1	20	16	1.1	7.3	1.0	1.8	6.4	14.8	7.4	22.1	0.2	1.7	10.4
233	Women's and misses' outerwear	E1	8	6	0.5	3.2	0.5	0.7	2.9	6.4	3.2	9.6	(Z)	0.7	3.7
24	Lumber and wood products	E2	15	5	0.5	4.4	0.4	0.7	3.4	9.9	11.8	21.5	1.1	0.9	10.5
34	Fabricated metal products	-	10	6	0.9	10.8	0.6	1.3	7.1	23.1	27.0	49.7	0.5	1.0	15.4
	Crawford County	-	**188**	**69**	**10.6**	**135.5**	**7.9**	**15.5**	**92.3**	**288.2**	**304.5**	**586.1**	**14.0**	**11.0**	**191.4**
28	Chemicals and allied products	-	4	3	1.4	17.7	0.9	1.8	10.5	44.9	43.1	87.9	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	11	5	0.7	7.5	0.5	1.1	5.4	14.0	15.4	29.0	0.8	0.7	7.5
34	Fabricated metal products	-	18	11	1.5	16.4	1.3	2.6	12.1	35.0	35.5	68.9	2.6	1.7	31.0
35	Machinery, except electrical	-	65	18	1.5	20.0	1.1	2.2	13.4	35.8	19.5	55.3	1.9	0.9	18.3
354	Metalworking machinery	-	44	12	0.9	12.2	0.7	1.4	8.9	22.8	10.5	33.2	1.2	0.6	12.4
36	Electric and electronic equipment	-	8	7	0.7	7.3	0.5	1.0	5.0	17.0	19.9	35.5	0.4	0.9	15.0
	Cumberland County	-	**187**	**82**	**14.6**	**166.9**	**10.6**	**20.9**	**110.4**	**454.8**	**589.3**	**1 038.4**	**23.8**	**15.1**	**254.6**
20	Food and kindred products	-	20	13	1.5	18.8	1.1	2.1	11.9	133.1	264.5	397.7	(D)	(NA)	(NA)
27	Printing and publishing	E1	34	7	0.6	5.5	0.4	0.7	3.4	11.8	6.3	18.1	0.4	(NA)	(NA)
3679	Electronic components, n.e.c.	-	10	8	1.5	13.9	1.1	2.1	7.9	20.8	7.7	29.7	1.3	(NA)	(NA)
--	Administrative and auxiliary	-	13	6	1.1	10.4	-	-	-	-	-	-	-	(NA)	(NA)
	Dauphin County	-	**270**	**110**	**24.8**	**342.2**	**16.1**	**29.7**	**187.0**	**697.0**	**818.9**	**1 506.3**	**42.4**	**24.2**	**452.5**
20	Food and kindred products	-	33	20	6.3	82.0	3.9	7.5	45.9	269.0	361.0	631.8	(D)	6.5	169.6
23	Apparel and other textile products	-	29	24	1.8	11.9	1.7	2.8	10.4	20.2	8.7	28.6	0.5	1.7	12.1
233	Women's and misses' outerwear	E1	15	14	1.0	6.5	0.9	1.5	5.6	10.7	4.0	14.4	0.4	0.8	5.6
2335	Women's and misses' dresses	E1	11	10	0.7	4.7	0.7	1.1	3.9	8.1	3.4	11.2	0.3	(NA)	(NA)
27	Printing and publishing	E1	58	10	1.3	16.0	0.8	1.4	8.9	33.8	19.6	53.3	0.9	1.5	26.1
275	Commercial printing	-	36	7	0.6	7.1	0.5	0.9	5.5	12.6	9.8	22.3	0.4	(NA)	(NA)
	Delaware County	-	**559**	**187**	**44.8**	**720.3**	**25.0**	**48.3**	**343.6**	**1 806.0**	**2 864.3**	**4 680.1**	**96.4**	**40.2**	**946.4**
20	Food and kindred products	-	26	13	1.9	21.1	1.3	2.7	12.1	54.1	136.2	189.1	1.7	1.6	25.9
201	Meat products	-	4	4	0.7	8.5	0.5	1.0	5.2	29.0	92.1	120.4	0.7	0.7	13.7
23	Apparel and other textile products	-	25	8	0.9	10.2	0.5	1.0	3.9	45.6	64.6	99.3	0.7	0.9	16.1
25	Furniture and fixtures	-	17	3	0.5	4.8	0.4	0.8	3.1	10.3	10.5	20.7	0.1	(NA)	(NA)
251	Household furniture	-	9	3	0.5	4.4	0.4	0.7	2.9	8.9	9.7	18.5	0.1	(NA)	(NA)
27	Printing and publishing	-	110	21	3.4	40.8	1.1	1.9	10.6	219.9	151.2	371.1	3.1	2.4	95.7
28	Chemicals and allied products	-	28	9	0.9	15.0	0.6	1.2	8.4	44.9	63.5	108.9	2.7	1.1	25.9
281	Industrial inorganic chemicals	-	5	3	0.5	7.9	0.3	0.6	5.0	21.0	28.4	49.6	(D)	0.6	13.4

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Delaware County—Con.													
30	Rubber and miscellaneous plastics products	-	26	8	0.8	11.7	0.5	1.1	6.3	20.7	30.4	54.6	1.9	2.2	25.1
33	Primary metal industries	-	15	8	0.9	11.4	0.7	1.1	7.8	13.9	31.4	51.9	1.4	1.0	12.3
34	Fabricated metal products	-	63	24	1.9	24.4	1.5	3.0	16.9	50.6	42.4	92.4	2.2	2.1	33.7
344	Fabricated structural metal products	E1	27	9	0.6	8.1	0.5	0.8	5.6	14.8	17.4	31.9	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	12	7	0.7	8.4	0.6	1.2	6.1	17.4	10.9	28.0	0.3	0.7	8.4
35	Machinery, except electrical	-	98	28	7.7	129.4	4.5	8.1	62.9	158.7	209.6	363.4	7.6	(NA)	(NA)
36	Electric and electronic equipment	-	21	9	1.3	15.1	0.9	1.8	9.0	25.9	13.8	40.5	1.3	1.5	23.8
38	Instruments and related products	E1	19	4	0.7	7.1	0.5	0.9	3.8	17.4	9.8	26.7	0.4	0.7	9.8
--	Administrative and auxiliary	-	24	17	4.8	91.4	-	-	-	-	-	-	-	(NA)	(NA)
	Elk County	-	**87**	**32**	**8.0**	**100.6**	**6.2**	**12.0**	**70.0**	**191.2**	**159.4**	**343.2**	**13.8**	**8.4**	**143.7**
34	Fabricated metal products	-	9	4	0.6	6.8	0.5	1.0	5.4	11.0	7.3	18.2	2.4	(NA)	(NA)
35	Machinery, except electrical	-	26	6	1.6	19.6	1.3	2.5	14.1	31.1	27.2	57.4	2.5	(NA)	(NA)
36	Electric and electronic equipment	-	7	7	3.9	49.8	3.0	5.5	33.2	97.1	58.7	150.4	(D)	4.5	90.8
	Erie County (Coextensive with Erie, Pa., SMSA; see table 6.)														
	Fayette County	-	**143**	**45**	**7.8**	**87.5**	**6.3**	**11.1**	**64.8**	**182.0**	**181.8**	**362.3**	**11.6**	**8.0**	**117.8**
23	Apparel and other textile products	-	10	9	1.2	7.6	1.1	1.8	6.7	9.1	5.8	14.9	0.1	1.8	9.5
34	Fabricated metal products	-	13	5	1.0	11.7	0.8	1.4	9.5	25.7	29.4	55.1	(D)	1.2	20.5
35	Machinery, except electrical	-	18	7	0.5	6.0	0.2	0.4	2.7	9.9	10.6	20.2	0.2	(NA)	(NA)
	Forest County	-	**6**	3	**0.5**	**5.8**	**0.5**	**0.9**	**5.0**	**14.9**	**12.0**	**26.6**	**0.5**	**0.6**	**11.1**
	Franklin County	-	**156**	69	**14.6**	**155.9**	**11.3**	**20.5**	**107.7**	**302.7**	**293.8**	**602.8**	**12.4**	**13.0**	**200.1**
20	Food and kindred products	-	16	9	0.7	6.9	0.6	1.0	4.8	29.5	49.7	79.3	2.6	1.0	28.2
23	Apparel and other textile products	-	13	13	3.5	27.0	3.3	5.1	24.3	58.7	28.7	86.4	0.6	3.3	22.9
2335	Women's and misses' dresses	E4	5	5	0.5	2.7	0.5	0.8	2.4	4.0	1.9	5.9	0.1	(NA)	(NA)
24	Lumber and wood products	-	31	7	0.5	5.9	0.5	1.0	4.5	11.3	19.1	30.4	1.0	0.5	7.3
27	Printing and publishing	E1	16	4	0.5	4.4	0.3	0.6	3.0	6.6	4.0	10.6	0.1	0.5	5.1
31	Leather and leather products	-	4	4	0.6	4.6	0.6	1.2	4.0	8.6	10.1	18.5	(D)	(NA)	(NA)
35	Machinery, except electrical	-	30	13	6.7	85.6	4.5	8.5	52.9	147.0	128.7	283.0	4.9	5.2	98.4
354	Metalworking machinery	-	7	5	1.7	23.9	1.0	2.4	13.5	41.7	16.3	57.0	2.7	1.8	31.6
	Greene County	-	33	9	**0.7**	**5.3**	**0.5**	**0.8**	**3.8**	**9.1**	**18.1**	**26.7**	**0.3**	**(D)**	**(D)**
	Huntingdon County	-	53	15	**3.2**	**32.1**	**2.7**	**4.8**	**25.4**	**79.9**	**55.0**	**136.7**	**5.4**	**3.9**	**51.4**
	Indiana County	-	**84**	**28**	**6.3**	**75.1**	**4.4**	**8.7**	**46.8**	**167.6**	**160.9**	**332.2**	**9.9**	**5.3**	**87.5**
34	Fabricated metal products	-	10	6	1.5	16.4	1.2	2.2	11.2	38.2	34.0	71.8	1.6	0.8	9.4
35	Machinery, except electrical	-	18	4	0.9	12.7	0.5	1.1	6.8	24.8	17.6	41.8	(D)	(NA)	(NA)
	Jefferson County	-	**99**	**39**	**6.3**	**66.0**	**4.9**	**9.1**	**43.8**	**114.3**	**92.3**	**206.8**	**12.3**	**5.0**	**58.9**
23	Apparel and other textile products	-	4	4	0.5	3.1	0.5	0.8	2.4	4.7	3.5	8.2	(D)	0.5	4.2
	Juniata County	-	**52**	**14**	**1.9**	**15.4**	**1.7**	**3.0**	**11.3**	**30.2**	**44.8**	**74.6**	**1.0**	**1.7**	**17.3**
23	Apparel and other textile products	-	8	8	0.7	5.0	0.7	1.2	4.3	7.2	3.1	10.2	0.1	0.9	4.3

See footnotes at end of table.

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[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Lackawanna County	–	**499**	**258**	**26.1**	**257.4**	**20.8**	**37.6**	**181.4**	**452.0**	**504.5**	**944.4**	**44.1**	**30.3**	**352.2**
201	Meat products	–	14	9	0.6	5.3	0.6	1.0	3.8	9.8	57.1	66.6	1.2	(NA)	(NA)
22	Textile mill products	–	12	9	1.4	11.1	1.2	2.2	8.9	11.8	17.0	29.0	0.2	2.0	18.4
228	Yarn and thread mills	–	7	5	0.6	5.1	0.6	1.2	4.4	3.8	6.9	10.8	(D)	(NA)	(NA)
23	Apparel and other textile products	E1	163	115	7.5	48.5	6.8	11.1	40.9	77.1	29.5	106.1	1.2	9.5	63.7
2311	Men's and boys' suits and coats	–	12	9	0.9	8.3	0.8	1.5	6.7	10.2	8.3	18.5	(D)	(NA)	(NA)
2327	Men's and boys' separate trousers	–	9	6	1.0	7.0	0.9	1.5	5.4	9.1	4.7	13.6	0.1	(NA)	(NA)
233	Women's and misses' outerwear	E2	108	77	3.9	23.2	3.6	5.7	20.2	38.3	9.7	47.7	(D)	5.0	31.8
24	Lumber and wood products	–	27	9	0.6	5.9	0.4	0.8	4.1	12.0	18.5	30.6	(D)	(NA)	(NA)
27	Printing and publishing	–	53	12	1.8	21.2	1.3	2.6	13.9	37.5	14.5	51.2	2.0	2.2	29.7
275	Commercial printing	E1	32	9	0.6	6.1	0.4	0.8	4.2	12.9	7.7	20.0	1.3	0.8	13.2
3079	Miscellaneous plastics products	E1	15	7	0.8	9.7	0.6	1.3	7.0	16.8	37.0	53.4	2.1	(NA)	(NA)
34	Fabricated metal products	–	39	18	3.0	35.4	2.3	4.2	23.7	70.4	56.7	126.0	5.0	3.8	39.7
346	Metal forgings and stampings	–	5	4	0.5	6.4	0.4	0.7	4.4	12.0	10.2	21.8	(D)	0.5	6.6
3469	Metal stampings, n.e.c.	–	5	4	0.5	6.4	0.4	0.7	4.4	12.0	10.2	21.8	(D)	(NA)	(NA)
35	Machinery, except electrical	E1	28	8	0.6	7.3	0.4	0.8	4.7	14.5	12.4	24.6	2.0	(NA)	(NA)
36	Electric and electronic equipment	–	19	13	3.2	37.0	2.9	5.3	29.1	86.0	93.6	175.9	(D)	3.4	71.4
37	Transportation equipment	–	8	6	0.9	14.1	0.8	1.5	10.7	12.3	39.5	50.7	0.3	0.5	7.1
--	Administrative and auxiliary	–	13	10	1.0	11.3	–	–	–	–	–	–	–	(NA)	(NA)
	Lancaster County (Coextensive with Lancaster, Pa., SMSA; see table 6.)														
	Lawrence County	–	**169**	**68**	**9.7**	**130.5**	**7.3**	**14.0**	**90.0**	**285.6**	**300.0**	**583.3**	**23.7**	**10.8**	**172.4**
32	Stone, clay, and glass products	–	24	10	2.3	28.2	1.7	3.1	19.4	60.0	40.6	101.5	2.3	2.5	43.6
34	Fabricated metal products	–	33	17	2.1	33.7	1.7	3.4	25.2	71.3	67.1	138.0	7.9	1.7	35.0
35	Machinery, except electrical	–	29	9	1.4	19.3	1.0	1.7	11.4	37.8	26.4	63.7	1.6	2.0	25.2
356	General industrial machinery	–	7	4	0.7	8.8	0.5	0.8	5.2	14.1	12.6	26.7	1.4	(NA)	(NA)
	Lebanon County	–	**195**	**106**	**14.2**	**166.3**	**11.2**	**20.8**	**117.1**	**423.3**	**482.2**	**884.7**	**22.5**	**13.8**	**245.5**
20	Food and kindred products	–	27	10	1.3	12.2	1.0	1.8	8.1	30.6	77.4	107.7	2.0	1.4	18.2
201	Meat products	–	9	6	0.8	6.8	0.7	1.3	5.5	11.9	47.9	59.5	1.3	0.7	6.5
2016	Poultry dressing plants	–	3	3	0.7	5.2	0.6	1.1	4.4	7.4	34.0	41.1	(D)	(NA)	(NA)
22	Textile mill products	–	9	7	0.6	6.2	0.5	1.0	5.0	8.5	9.0	17.9	(D)	1.0	11.4
23	Apparel and other textile products	–	39	32	2.7	18.5	2.5	4.3	15.9	30.3	27.3	57.8	0.7	3.2	22.7
232	Men's and boys' furnishings	–	6	6	1.0	7.9	0.9	1.7	6.8	14.6	17.4	32.6	0.3	0.8	6.6
2321	Men's and boys' shirts and nightwear	–	5	5	0.9	7.3	0.8	1.6	6.3	13.8	15.8	30.2	0.3	(NA)	(NA)
233	Women's and misses' outerwear	–	22	18	1.2	7.3	1.1	1.7	6.0	11.0	8.8	19.5	0.2	1.1	7.7
2331	Women's and misses' blouses and waists	–	10	9	0.7	4.1	0.6	0.9	3.6	5.1	0.9	6.0	(D)	(NA)	(NA)
27	Printing and publishing	–	19	8	0.6	8.5	0.4	0.8	5.1	15.9	7.4	23.1	0.7	0.5	6.6
31	Leather and leather products	–	6	5	1.1	9.0	1.0	1.8	6.8	16.1	16.9	33.4	0.2	1.2	11.6
33	Primary metal industries	–	8	4	2.0	32.7	1.5	2.8	23.8	70.2	111.6	170.0	6.9	3.5	45.1
34	Fabricated metal products	–	16	12	2.6	39.7	2.0	3.6	28.1	90.0	86.1	166.8	5.4	1.0	29.4
35	Machinery, except electrical	–	30	12	1.1	14.5	0.5	1.0	7.4	36.6	53.7	90.5	1.7	(NA)	(NA)
	Lehigh County	–	**489**	**245**	**47.8**	**699.6**	**30.2**	**58.1**	**352.5**	**1 241.2**	**1 626.0**	**2 851.1**	**52.1**	**47.1**	**666.6**
225	Knitting mills	E2	30	23	2.8	24.8	2.4	4.6	17.9	47.5	58.8	107.0	6.2	3.1	38.9
2257	Circular knit fabric mills	E3	18	13	1.6	16.1	1.4	2.8	11.2	29.6	37.8	66.6	4.9	(NA)	(NA)
232	Men's and boys' furnishings	E1	14	8	0.9	7.0	0.8	1.5	5.9	8.6	4.1	13.4	0.2	1.6	14.4
233	Women's and misses' outerwear	E1	73	54	4.2	28.1	3.9	6.4	23.8	33.3	22.5	55.9	1.4	3.1	21.3
2331	Women's and misses' blouses and waists	–	41	36	2.8	19.3	2.6	4.5	16.3	22.6	20.0	42.7	1.2	(NA)	(NA)
33	Primary metal industries	–	11	6	0.7	7.4	0.6	1.0	5.9	13.9	17.1	31.5	1.7	0.6	7.9
332	Iron and steel foundries	–	4	3	0.5	5.0	0.4	0.6	3.9	9.2	12.6	22.5	(D)	(NA)	(NA)
3321	Gray iron foundries	–	4	3	0.5	5.0	0.4	0.6	3.9	9.2	12.6	22.5	(D)	(NA)	(NA)
344	Fabricated structural metal products	–	20	3	1.0	16.4	0.7	1.2	9.9	33.6	43.4	77.6	0.5	1.2	10.7
364	Electric lighting and wiring equipment	–	3	3	0.8	8.1	0.7	1.2	5.9	15.4	12.4	27.6	(D)	(NA)	(NA)
38	Instruments and related products	–	7	4	0.6	5.7	0.4	0.8	3.8	10.5	4.1	13.8	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	19	12	8.4	190.3	–	–	–	–	–	–	–	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Luzerne County	-	670	358	40.5	379.3	32.4	57.8	269.0	773.1	715.8	1 458.7	44.1	47.3	599.4
20	Food and kindred products	E1	63	21	3.0	28.4	1.9	3.5	18.5	74.1	69.5	142.3	3.8	(NA)	(NA)
205	Bakery products	-	14	4	0.5	5.5	0.3	0.6	4.1	15.7	11.8	27.5	(D)	(NA)	(NA)
2051	Bread, cake, and related products	-	14	4	0.5	5.5	0.3	0.6	4.1	15.7	11.8	27.5	(D)	(NA)	(NA)
208	Beverages	E2	15	4	0.5	5.5	0.2	0.4	2.3	10.2	15.2	25.5	(D)	0.7	12.5
22	Textile mill products	-	26	20	2.4	20.2	2.0	3.8	15.5	45.6	82.7	126.9	3.5	4.0	44.8
225	Knitting mills	-	9	8	1.0	7.7	0.8	1.5	6.1	18.4	50.9	68.6	(D)	(NA)	(NA)
23	Apparel and other textile products	E2	222	169	12.1	79.5	11.2	18.3	67.2	120.8	59.2	182.4	1.7	14.9	119.7
2311	Men's and boys' suits and coats	-	9	6	1.0	8.7	0.9	1.8	7.9	12.3	3.9	16.3	(D)	(NA)	(NA)
233	Women's and misses' outerwear	E4	164	129	8.7	54.1	8.0	13.0	45.5	74.4	25.2	101.4	0.9	10.5	80.7
2331	Women's and misses' blouses and waists	-	12	10	0.6	3.0	0.6	0.9	2.8	4.0	0.3	4.3	(D)	(NA)	(NA)
2335	Women's and misses' dresses	E4	136	106	6.9	43.8	6.4	10.3	36.2	60.7	23.0	85.4	0.5	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	E2	13	10	0.9	5.7	0.8	1.5	5.0	7.6	1.7	9.4	(D)	(NA)	(NA)
236	Children's outerwear	E2	14	11	0.7	4.4	0.6	0.9	3.8	8.9	8.1	16.9	(Z)	1.2	10.7
24	Lumber and wood products	E2	34	9	0.5	4.6	0.5	0.9	3.6	12.6	19.6	32.1	1.2	0.7	5.6
25	Furniture and fixtures	-	19	8	1.0	9.4	0.8	1.4	7.0	18.8	20.6	39.3	(D)	1.9	21.5
26	Paper and allied products	-	16	11	1.2	12.8	1.0	1.7	9.1	34.4	55.7	90.1	1.9	0.9	15.6
27	Printing and publishing	-	48	9	1.2	16.8	0.9	1.8	10.9	28.5	14.4	42.9	1.6	1.3	20.0
2711	Newspapers	-	9	3	0.6	8.3	0.3	0.6	4.2	12.2	3.4	15.5	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	20	10	2.1	18.7	1.7	3.2	14.2	42.7	53.0	95.6	1.7	1.8	19.2
3142	House slippers	E1	4	3	0.8	5.5	0.7	1.2	4.2	7.7	7.3	14.9	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	30	11	2.5	30.4	2.0	3.9	23.3	76.6	50.0	127.1	5.6	(NA)	(NA)
33	Primary metal industries	-	12	6	0.7	10.0	0.6	1.1	7.3	13.6	27.9	42.0	(D)	0.8	13.1
335	Nonferrous rolling and drawing	-	3	3	0.5	6.7	0.4	0.7	4.8	7.7	20.3	28.7	(D)	(NA)	(NA)
34	Fabricated metal products	-	40	17	2.4	32.1	1.8	3.4	20.7	98.7	72.3	140.6	4.4	1.9	37.1
344	Fabricated structural metal products	-	26	7	1.3	16.7	0.9	1.8	11.2	60.3	35.0	64.1	1.2	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	5	4	0.6	8.5	0.4	0.8	4.7	18.8	16.0	35.6	(D)	(NA)	(NA)
35	Machinery, except electrical	-	48	20	2.2	27.7	1.7	3.2	18.9	40.9	55.5	98.2	4.0	2.1	43.8
356	General industrial machinery	-	9	6	1.3	17.2	1.0	2.0	12.1	21.6	34.9	57.8	2.9	(NA)	(NA)
36	Electric and electronic equipment	-	10	8	2.8	30.9	2.2	3.9	21.1	65.5	32.5	98.3	(D)	3.3	45.2
37	Transportation equipment	-	14	7	0.7	7.7	0.6	1.0	5.5	18.1	29.8	48.2	0.2	1.0	17.2
39	Miscellaneous manufacturing industries	-	21	7	1.3	12.3	1.0	1.8	7.6	27.5	28.6	53.3	0.9	(NA)	(NA)
--	Administrative and auxiliary	-	13	9	1.3	14.7	-	-	-	-	-	-	-	(NA)	(NA)
	Lycoming County (Coextensive with Williamsport, Pa., SMSA; see table 6.)														
	McKean County	-	94	39	7.0	83.0	5.4	10.6	56.8	159.1	247.1	403.2	11.4	7.3	111.7
36	Electric and electronic equipment	-	5	5	1.4	17.0	1.2	2.4	12.9	31.3	26.1	56.8	(D)	1.9	29.2
	Mercer County	-	157	61	16.1	246.1	12.2	24.5	177.0	566.7	725.5	1 281.4	39.6	18.8	375.6
20	Food and kindred products	E1	26	8	0.5	5.5	0.3	0.5	2.5	12.8	38.2	51.1	1.1	0.6	8.5
33	Primary metal industries	-	14	11	6.8	113.7	5.5	11.8	90.2	287.9	430.0	707.1	26.3	7.8	213.0
331	Blast furnace and basic steel products	-	7	6	4.8	81.8	3.9	8.6	66.0	227.8	361.8	578.9	(D)	6.0	180.5
34	Fabricated metal products	-	20	11	1.3	17.0	0.8	1.6	10.1	50.1	55.6	104.5	1.4	1.7	34.4
344	Fabricated structural metal products	-	8	6	0.6	8.4	0.4	0.7	4.4	27.5	28.2	56.1	0.8	0.6	13.9
	Mifflin County	-	58	25	6.2	79.0	5.1	9.8	59.9	132.9	224.9	355.0	9.8	7.1	86.5

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Monroe County	-	97	48	4.3	48.3	3.2	6.0	31.8	102.7	73.8	179.9	5.3	5.2	72.7
23	Apparel and other textile products	E1	16	14	0.8	5.6	0.7	1.2	4.5	7.4	1.2	8.6	0.3	0.7	4.5
233	Women's and misses' outerwear	E1	12	11	0.6	3.9	0.6	1.0	3.3	5.2	1.0	6.3	(D)	0.6	3.6
27	Printing and publishing	-	12	5	0.5	6.1	0.4	0.7	3.9	12.7	4.8	17.5	0.4	0.6	7.8
34	Fabricated metal products	-	11	5	0.7	9.9	0.5	0.8	5.4	22.0	11.1	32.6	1.6	0.9	15.0
36	Electric and electronic equipment	-	6	3	0.5	6.6	0.4	0.8	4.8	12.9	12.7	25.2	(D)	0.5	8.1
	Montgomery County	-	1 458	554	97.8	1 444.9	57.7	112.5	706.8	3 141.3	2 710.8	5 799.1	148.3	105.1	2 159.1
20	Food and kindred products	-	74	30	5.3	73.5	3.4	6.7	40.3	216.4	421.1	635.9	11.4	5.4	140.3
201	Meat products	-	14	8	1.3	19.6	1.1	2.3	13.9	42.7	229.7	271.3	6.7	0.7	14.4
202	Dairy products	-	13	6	0.5	7.5	0.3	0.7	4.1	16.1	62.5	78.6	0.6	0.9	29.4
205	Bakery products	-	20	4	0.9	13.1	0.5	1.0	5.2	40.9	25.1	65.9	0.5	0.8	20.0
22	Textile mill products	-	36	17	1.7	15.1	1.5	2.6	11.1	28.7	44.5	72.6	0.8	2.3	30.2
225	Knitting mills	-	20	10	1.0	9.4	0.9	1.5	7.0	17.7	25.4	43.2	0.4	1.4	17.0
23	Apparel and other textile products	E1	72	44	4.2	32.4	3.7	6.3	24.9	71.8	65.9	135.7	1.2	3.9	38.5
2311	Men's and boys' suits and coats	-	13	11	1.2	11.2	1.0	1.8	8.6	24.7	22.8	47.1	0.1	(NA)	(NA)
233	Women's and misses' outerwear	E4	19	13	1.3	8.8	1.1	1.6	6.5	16.8	12.1	27.9	0.9	1.3	11.6
2335	Women's and misses' dresses	E3	13	7	0.6	4.2	0.5	0.7	2.8	8.7	4.9	12.7	(D)	(NA)	(NA)
25	Furniture and fixtures	-	27	13	2.1	24.5	1.6	3.2	18.3	58.4	57.4	114.7	4.6	2.0	31.1
26	Paper and allied products	-	30	16	2.1	27.0	1.5	3.1	17.7	53.7	77.5	129.8	4.0	2.6	40.3
265	Paperboard containers and boxes	-	15	8	1.1	14.1	0.8	1.6	9.2	25.3	41.7	66.3	2.4	1.4	19.4
2653	Corrugated and solid fiber boxes	-	6	3	0.5	6.6	0.3	0.7	4.2	10.2	13.4	24.0	(D)	(NA)	(NA)
27	Printing and publishing	-	178	36	4.0	44.8	2.7	4.9	27.1	100.5	41.1	140.8	4.8	3.6	50.3
275	Commercial printing	E1	107	16	1.4	16.7	1.1	2.0	11.6	33.5	18.8	51.9	1.6	1.3	21.7
2751	Commercial printing, letterpress	E1	56	5	0.7	7.4	0.6	1.0	5.4	14.1	8.9	23.1	(D)	(NA)	(NA)
2752	Commercial printing, lithographic	E1	47	11	0.8	9.2	0.6	1.1	6.2	19.2	9.9	28.6	(D)	(NA)	(NA)
28	Chemicals and allied products	-	56	25	8.1	147.6	4.9	9.8	79.1	856.5	417.1	1 266.7	30.6	7.6	507.3
283	Drugs	-	8	5	5.7	110.1	3.4	6.6	57.8	742.3	273.9	1 011.7	15.7	4.7	441.9
289	Miscellaneous chemical products	-	22	10	0.7	9.2	0.5	0.9	4.5	23.8	21.5	44.6	0.9	0.8	15.3
29	Petroleum and coal products	-	10	4	0.6	11.5	0.2	0.4	2.3	17.5	24.4	41.9	1.3	0.6	16.1
30	Rubber and miscellaneous plastics products	-	66	30	8.0	118.4	6.5	12.7	89.6	275.1	331.3	587.5	11.4	7.6	226.6
32	Stone, clay, and glass products	-	78	33	3.9	52.9	3.1	6.2	37.2	103.9	91.9	195.4	3.7	5.3	96.0
325	Structural clay products	-	4	3	1.3	16.1	1.0	2.0	11.5	31.5	21.8	53.6	(D)	1.5	25.5
327	Concrete, gypsum, and plaster products	-	31	10	0.5	7.2	0.3	0.7	4.3	13.8	15.6	29.8	0.9	0.7	15.5
329	Miscellaneous nonmetallic mineral products	-	26	15	1.3	19.0	1.0	2.0	12.5	39.0	41.7	79.5	1.7	1.4	19.6
33	Primary metal industries	-	33	19	4.6	63.4	3.5	6.4	46.6	81.3	126.3	216.8	2.1	6.4	104.7
3317	Steel pipe and tubes	-	6	6	1.2	16.6	0.9	1.8	12.6	22.8	19.2	41.2	(D)	(NA)	(NA)
34	Fabricated metal products	-	190	75	8.8	120.1	6.7	13.1	79.5	249.0	208.4	455.5	17.1	9.2	149.8
344	Fabricated structural metal products	E1	61	27	2.1	27.6	1.5	2.8	17.1	57.6	56.3	113.7	2.6	3.2	49.5
3441	Fabricated structural metal	-	17	9	0.8	10.3	0.5	1.0	6.5	21.6	26.9	48.9	1.2	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	E1	15	9	0.8	10.6	0.5	1.0	6.1	24.3	19.9	43.9	1.0	(NA)	(NA)
345	Screw machine products, bolts, etc.	-	19	6	2.1	27.4	1.7	3.4	22.7	62.3	38.5	99.2	(D)	1.8	31.9
346	Metal forgings and stampings	-	20	10	0.6	9.2	0.5	1.1	6.6	19.6	28.4	47.6	0.6	0.7	9.5
349	Miscellaneous fabricated metal products	-	46	20	2.9	41.5	2.2	4.0	23.6	76.7	55.6	132.1	3.6	2.7	43.4
3498	Fabricated pipe and fittings	-	11	7	0.6	9.0	0.5	0.9	5.6	17.9	10.9	28.2	0.7	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Montgomery County—Con.														
35	Machinery, except electrical	-	264	73	10.6	159.7	6.3	13.0	86.6	320.5	233.3	544.2	16.3	9.5	178.0
353	Construction and related machinery	-	7	5	0.9	15.1	0.4	0.7	4.7	38.2	26.9	63.3	0.4	1.0	16.0
354	Metalworking machinery	-	47	8	1.2	20.8	0.9	1.8	14.6	40.9	22.1	61.8	2.3	1.2	21.3
3544	Special dies, tools, jigs, and fixtures	-	25	5	0.6	10.8	0.5	1.0	8.8	19.1	9.0	27.4	1.2	(NA)	(NA)
355	Special industry machinery	-	42	16	1.8	28.2	1.0	2.1	13.2	48.7	56.2	103.2	1.9	1.8	35.2
3559	Special industry machinery, n.e.c.	-	24	10	1.2	18.5	0.6	1.3	8.0	33.6	42.5	73.0	1.5	(NA)	(NA)
356	General industrial machinery	-	44	24	3.1	49.0	2.2	4.7	32.9	104.3	57.8	160.1	6.0	2.4	45.1
3566	Speed changers, drives, and gears	-	6	6	1.5	24.8	1.1	2.4	17.4	55.7	28.0	82.0	(D)	(NA)	(NA)
357	Office and computing machines	-	10	7	1.9	24.7	0.6	1.3	7.6	44.7	33.7	75.7	(D)	1.2	28.4
3573	Electronic computing equipment	-	10	7	1.9	24.7	0.6	1.3	7.6	44.7	33.7	75.7	(D)	(NA)	(NA)
358	Refrigeration and service machinery	-	8	4	0.6	7.2	0.4	0.7	3.6	16.1	20.3	36.2	(D)	0.8	14.0
36	Electric and electronic equipment	-	98	39	6.7	84.1	4.4	8.5	46.5	181.0	288.7	464.0	11.9	9.8	168.0
362	Electrical industrial apparatus	-	12	5	0.6	8.0	0.4	0.9	4.5	18.8	11.5	27.8	1.1	(NA)	(NA)
366	Communication equipment	-	19	12	2.0	25.6	1.0	1.8	10.2	54.3	41.3	92.8	(D)	4.8	92.8
369	Miscellaneous electrical equipment and supplies	-	12	6	0.7	6.4	0.6	1.1	3.6	13.3	15.5	28.0	0.6	(NA)	(NA)
37	Transportation equipment	-	19	11	4.9	102.3	2.1	4.3	32.3	161.0	115.3	275.9	14.6	8.2	151.7
38	Instruments and related products	-	73	28	9.7	150.9	4.6	9.1	58.5	334.4	129.2	451.7	11.4	9.0	175.7
382	Measuring and controlling devices	-	33	16	7.8	127.3	3.4	6.8	45.8	279.9	99.3	369.8	7.8	7.7	152.1
3823	Process control instruments	-	11	7	6.9	116.0	2.9	5.8	40.4	253.7	85.5	330.9	(D)	(NA)	(NA)
384	Medical instruments and supplies	-	20	5	0.7	8.6	0.4	0.7	4.7	19.5	12.4	30.5	0.9	(NA)	(NA)
--	Administrative and auxiliary	-	64	41	11.1	202.1	-	-	-	-	-	-	-	(NA)	(NA)
	Montour County	-	**17**	**10**	**2.3**	**31.2**	**1.8**	**3.7**	**23.1**	**147.5**	**81.7**	**231.0**	**5.1**	**2.8**	**53.2**
	Northampton County	-	**427**	**247**	**39.3**	**497.0**	**30.8**	**54.9**	**349.7**	**938.7**	**817.0**	**1 735.9**	**85.2**	**41.9**	**701.8**
20	Food and kindred products	-	27	5	0.8	9.6	0.6	1.2	5.4	23.7	47.9	72.0	1.7	0.8	16.2
22	Textile mill products	-	18	15	1.4	13.3	1.2	2.4	10.4	37.4	57.4	94.3	(D)	1.7	32.9
23	Apparel and other textile products	-	159	131	11.7	77.5	10.8	17.6	65.2	129.8	79.8	207.4	2.3	12.0	89.9
233	Women's and misses' outerwear	-	131	109	7.9	50.3	7.4	12.1	43.8	81.0	25.2	106.5	1.4	7.5	47.3
2331	Women's and misses' blouses and waists	-	93	80	5.3	33.7	5.1	8.4	30.1	43.7	5.7	49.8	0.8	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	-	18	15	1.4	9.1	1.3	2.1	7.8	13.4	7.1	20.7	0.2	(NA)	(NA)
27	Printing and publishing	E3	36	9	1.6	21.1	1.2	2.2	14.9	36.5	17.3	53.7	1.0	1.7	25.2
275	Commercial printing	E1	24	6	1.1	15.0	0.9	1.6	11.9	24.4	10.6	34.9	0.7	1.3	17.5
2752	Commercial printing, lithographic	E1	17	5	0.9	13.7	0.8	1.5	10.6	21.8	9.2	30.9	0.7	(NA)	(NA)
28	Chemicals and allied products	-	14	4	0.6	8.4	0.3	0.6	4.4	31.8	18.7	49.7	(D)	0.6	14.9
281	Industrial inorganic chemicals	-	5	3	0.5	7.4	0.3	0.5	3.8	28.8	14.9	43.0	3.4	0.5	13.7
30	Rubber and miscellaneous plastics products	-	11	8	0.8	9.0	0.6	1.1	6.1	30.4	27.5	58.7	2.5	0.9	17.9
32	Stone, clay, and glass products	-	33	16	2.1	30.4	1.7	3.2	23.5	83.1	54.7	118.8	2.1	2.3	63.4
34	Fabricated metal products	-	33	16	2.1	26.7	1.6	3.0	19.3	46.3	52.3	99.2	5.5	1.7	33.4
35	Machinery, except electrical	-	24	9	1.4	20.2	0.9	1.8	10.7	42.1	27.1	68.9	(D)	1.1	20.9
36	Electric and electronic equipment	-	5	4	0.9	12.2	0.7	1.4	8.9	26.4	30.0	54.5	(D)	0.8	14.4
--	Administrative and auxiliary	-	13	7	1.0	15.8	-	-	-	-	-	-	-	(NA)	(NA)
	Northumberland County	-	**158**	**87**	**13.2**	**127.9**	**10.9**	**19.4**	**95.8**	**264.2**	**408.6**	**669.8**	**9.6**	**14.3**	**175.8**
20	Food and kindred products	-	33	13	2.8	33.3	2.1	4.3	22.1	86.1	166.1	251.7	2.4	3.0	54.8
201	Meat products	-	8	5	0.8	7.1	0.5	1.1	4.2	9.5	56.5	65.6	0.1	0.8	11.4
23	Apparel and other textile products	-	29	25	2.8	16.3	2.7	3.9	14.6	24.2	4.5	28.5	0.2	3.8	26.1
233	Women's and misses' outerwear	-	19	15	1.6	8.8	1.5	2.1	7.8	10.8	1.3	12.1	0.1	2.4	13.8
2335	Women's and misses' dresses	E1	15	11	1.0	5.4	0.9	1.2	4.4	8.2	1.2	7.3	(D)	(NA)	(NA)
24	Lumber and wood products	-	9	5	0.6	5.7	0.5	0.9	4.4	9.8	17.7	27.1	0.2	1.1	14.5
243	Millwork, plywood, and structural members	-	4	4	0.6	5.4	0.5	0.8	4.1	9.3	17.2	26.2	0.1	0.7	7.8
39	Miscellaneous manufacturing industries	E1	7	3	0.5	3.9	0.4	0.8	3.0	13.3	10.1	23.3	0.4	0.6	6.8

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Perry County	-	38	14	1.0	6.7	0.9	1.5	5.4	12.5	6.4	18.7	0.5	0.8	6.5
	Philadelphia County (See table 8.)														
	Potter County	-	44	12	0.9	7.9	0.8	1.5	6.1	18.4	12.8	31.0	2.0	0.8	8.1
	Schuylkill County	-	294	173	20.3	167.5	16.9	30.6	124.8	342.7	391.3	749.5	16.7	22.9	249.7
22	Textile mill products	-	22	17	2.7	22.7	2.3	4.5	17.9	51.8	81.4	132.7	3.0	3.6	36.8
23	Apparel and other textile products	-	107	89	9.5	58.3	8.6	14.8	47.9	95.2	48.1	140.9	1.9	9.6	59.4
232	Men's and boys' furnishings	-	17	16	2.9	19.4	2.5	4.5	15.6	38.1	22.7	58.6	0.6	2.6	19.8
2321	Men's and boys' shirts and nightwear	-	12	12	2.4	16.0	2.1	3.8	12.8	30.5	19.8	48.0	0.4	(NA)	(NA)
233	Women's and misses' outerwear	E1	72	60	5.1	28.9	4.7	8.1	24.3	42.4	17.7	60.3	1.1	5.5	29.3
2331	Women's and misses' blouses and waists	-	22	21	1.8	10.5	1.7	2.6	8.7	17.4	12.1	29.7	0.8	(NA)	(NA)
2335	Women's and misses' dresses	E2	38	29	2.3	12.7	2.2	4.0	10.9	17.4	5.2	22.6	0.2	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	-	7	7	0.8	4.1	0.7	1.2	3.8	5.6	0.3	5.9	0.1	(NA)	(NA)
234	Women's and children's undergarments	-	4	3	0.5	2.9	0.4	0.7	2.5	4.2	1.7	6.1	0.1	(NA)	(NA)
2341	Women's and children's underwear	-	4	3	0.5	2.9	0.4	0.7	2.5	4.2	1.7	6.1	0.1	(NA)	(NA)
236	Children's outerwear	E1	8	6	0.6	3.7	0.5	0.9	3.0	6.1	4.8	10.3	(D)	(NA)	(NA)
24	Lumber and wood products	-	18	6	0.6	5.3	0.5	0.9	3.6	10.5	20.8	30.7	0.4	0.6	6.0
28	Chemicals and allied products	-	5	3	1.1	13.4	0.8	1.5	8.4	36.6	19.1	55.4	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	6	5	1.0	12.1	0.7	1.4	8.2	29.7	39.2	68.8	(D)	0.9	18.4
3079	Miscellaneous plastics products	-	6	5	1.0	12.1	0.7	1.4	8.2	29.7	39.2	68.8	(D)	(NA)	(NA)
31	Leather and leather products	-	5	5	0.7	3.6	0.5	0.8	2.8	5.8	3.4	9.3	(Z)	0.9	5.0
314	Footwear, except rubber	-	5	5	0.7	3.6	0.5	0.8	2.8	5.8	3.4	9.3	(Z)	0.9	5.0
33	Primary metal industries	-	8	6	0.8	9.1	0.6	1.0	7.0	16.1	66.1	104.1	2.2	1.8	35.5
34	Fabricated metal products	-	27	12	1.2	14.6	0.9	1.8	10.0	38.0	38.6	76.6	1.5	0.8	13.0
	Snyder County	-	66	37	3.4	30.3	2.9	5.3	23.1	52.4	64.0	115.7	2.5	3.2	38.8
23	Apparel and other textile products	-	15	11	0.7	3.7	0.7	1.1	3.2	5.0	0.8	5.7	0.1	0.7	4.1
24	Lumber and wood products	E3	11	4	0.8	10.6	0.7	1.3	8.2	19.1	19.8	38.2	0.5	0.9	14.1
	Somerset County	-	124	40	4.2	33.7	3.7	6.8	26.5	77.3	94.0	169.7	3.5	3.9	40.2
23	Apparel and other textile products	E4	11	11	1.3	7.6	1.2	2.0	6.8	12.3	5.6	17.2	(D)	1.4	8.6
	Susquehanna County	-	63	21	2.2	19.3	1.9	3.6	14.4	34.6	28.2	62.1	(D)	2.1	21.6
23	Apparel and other textile products	E1	12	8	0.5	3.0	0.5	0.7	2.6	3.8	2.4	6.2	(D)	0.7	3.6
	Tioga County	-	48	13	2.3	25.3	1.9	3.7	19.2	61.5	86.4	146.4	2.3	2.5	48.0
34	Fabricated metal products	-	6	4	0.8	9.5	0.7	1.4	7.7	22.6	24.3	45.2	(D)	0.7	15.9
	Union County	-	35	16	2.8	27.7	2.4	4.7	20.9	66.1	76.6	141.9	(D)	2.7	40.0
	Venango County	-	92	37	8.3	123.0	5.4	10.5	81.2	239.3	424.0	662.5	19.8	7.2	132.9
33	Primary metal industries	-	8	4	0.8	14.0	0.6	1.3	10.0	21.5	36.1	58.1	(D)	0.8	17.1
331	Blast furnace and basic steel products	-	3	3	0.8	13.4	0.6	1.2	9.5	20.5	34.8	55.8	(D)	0.7	16.5
35	Machinery, except electrical	-	20	7	4.6	66.8	2.7	5.3	43.3	144.4	135.5	278.1	6.5	3.8	69.3
353	Construction and related machinery	-	4	4	4.3	62.8	2.5	4.9	40.2	138.0	132.6	268.9	6.2	(NA)	(NA)
	Warren County	-	101	39	5.9	77.4	4.2	8.4	49.0	179.5	416.3	587.7	13.3	5.5	99.2
30	Rubber and miscellaneous plastics products	-	5	4	0.7	7.1	0.6	1.3	5.1	15.7	12.3	28.1	(D)	(NA)	(NA)
34	Fabricated metal products	-	13	8	1.1	16.0	0.8	1.5	9.9	30.6	31.5	60.9	1.5	0.8	14.3
344	Fabricated structural metal products	-	5	4	0.9	12.9	0.6	1.2	8.2	22.7	24.4	45.9	0.9	(NA)	(NA)
36	Electric and electronic equipment	-	9	5	0.5	3.6	0.4	0.7	2.7	8.3	9.7	18.0	0.1	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Washington County	-	**243**	**109**	**19.0**	**275.8**	**14.6**	**28.3**	**202.1**	**592.1**	**944.8**	**1 526.2**	**27.8**	**19.0**	**365.8**
20	Food and kindred products	E1	25	11	0.5	5.9	0.3	0.6	3.1	18.3	30.9	47.2	0.8	0.5	7.0
23	Apparel and other textile products	E3	8	4	0.6	4.1	0.6	1.0	3.4	5.3	1.4	6.8	(D)	(NA)	(NA)
233	Women's and misses' outerwear	E3	3	3	0.5	3.6	0.5	0.9	3.1	4.7	0.3	5.0	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	21	9	3.0	38.9	2.8	5.1	33.4	82.4	48.8	134.2	4.5	3.1	61.4
322	Glass and glassware, pressed or blown	-	4	4	2.8	35.5	2.5	4.7	31.2	76.0	42.6	121.6	(D)	(NA)	(NA)
33	Primary metal industries	-	20	15	5.6	98.7	4.7	8.7	81.1	178.9	472.0	644.3	8.3	5.2	93.8
331	Blast furnace and basic steel products	-	9	8	4.4	82.3	3.7	6.8	67.4	139.8	388.4	522.6	(D)	4.4	81.1
34	Fabricated metal products	-	26	16	1.5	19.7	1.1	2.2	12.9	41.4	41.0	82.3	1.8	1.2	19.1
344	Fabricated structural metal products	-	11	7	0.7	9.2	0.5	1.0	5.4	20.1	17.0	36.9	0.4	0.7	10.7
35	Machinery, except electrical	-	46	20	2.0	27.5	1.4	2.7	17.1	64.6	54.5	106.5	2.4	1.5	33.8
353	Construction and related machinery	-	6	4	1.1	14.6	0.6	1.2	8.4	31.2	36.0	62.3	(D)	0.8	23.2
3532	Mining machinery	-	6	4	1.1	14.6	0.6	1.2	8.4	31.2	36.0	62.3	(D)	(NA)	(NA)
--	Administrative and auxiliary	-	10	4	0.5	8.1	-	-	-	-	-	-	-	(NA)	(NA)
	Wayne County	-	**71**	**20**	**2.4**	**20.1**	**2.1**	**3.7**	**14.9**	**51.9**	**73.4**	**123.1**	**3.7**	**2.3**	**41.6**
23	Apparel and other textile products	-	12	8	1.3	7.8	1.1	1.9	6.4	18.3	20.4	37.1	0.2	(NA)	(NA)
234	Women's and children's undergarments	-	3	3	0.9	5.9	0.8	1.4	4.7	14.8	18.5	31.6	0.1	(NA)	(NA)
2341	Women's and children's underwear	-	3	3	0.9	5.9	0.8	1.4	4.7	14.8	18.5	31.6	0.1	(NA)	(NA)
	Westmoreland County	-	**497**	**185**	**34.7**	**503.8**	**24.3**	**46.4**	**325.4**	**942.0**	**874.9**	**1 809.4**	**165.8**	**37.4**	**661.4**
20	Food and kindred products	E1	37	10	0.7	8.8	0.4	0.8	4.9	21.9	38.4	60.3	1.2	1.4	26.3
23	Apparel and other textile products	-	15	8	1.1	7.3	1.0	1.8	6.0	10.2	6.6	16.8	0.3	1.1	6.1
26	Paper and allied products	-	7	6	0.7	8.3	0.6	1.1	5.1	15.7	22.6	37.9	0.4	(NA)	(NA)
27	Printing and publishing	-	40	12	1.2	12.9	0.7	1.0	6.3	24.3	13.9	38.3	1.5	1.2	16.4
28	Chemicals and allied products	-	7	4	0.5	5.3	0.2	0.4	2.5	11.6	7.8	18.8	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	20	10	1.4	18.4	1.1	2.2	13.8	32.5	33.0	67.8	2.1	0.7	9.8
32	Stone, clay, and glass products	-	45	26	4.0	49.0	3.3	6.6	39.8	93.1	63.1	154.4	6.3	4.2	64.6
322	Glass and glassware, pressed or blown	-	7	5	1.6	16.6	1.4	2.8	14.4	33.9	19.1	51.7	(D)	1.8	24.5
3229	Pressed and blown glass, n.e.c.	-	7	5	1.6	16.6	1.4	2.8	14.4	33.9	19.1	51.7	(D)	(NA)	(NA)
326	Pottery and related products	E1	3	3	0.8	10.5	0.6	1.2	7.9	16.2	6.6	23.3	(D)	(NA)	(NA)
33	Primary metal industries	-	39	26	11.0	187.8	8.4	16.3	143.7	350.1	371.4	713.7	32.6	11.6	257.5
331	Blast furnace and basic steel products	-	16	10	7.4	135.3	5.6	10.7	104.8	263.1	295.7	550.9	23.2	8.5	211.5
332	Iron and steel foundries	-	13	12	2.8	42.1	2.2	4.4	30.9	68.4	51.5	119.8	(D)	2.3	30.6
3321	Gray iron foundries	-	9	8	1.1	17.6	0.9	1.8	12.6	37.0	27.6	63.9	5.3	(NA)	(NA)
3325	Steel foundries, n.e.c.	-	4	4	1.7	24.5	1.3	2.6	18.4	31.4	23.9	55.9	(D)	(NA)	(NA)
34	Fabricated metal products	-	62	20	2.2	28.2	1.6	3.3	19.8	49.0	57.1	105.3	3.5	2.7	40.9
344	Fabricated structural metal products	-	27	10	0.8	9.5	0.5	1.1	5.9	14.7	18.1	32.9	1.6	0.6	8.0
35	Machinery, except electrical	-	119	36	6.6	101.5	3.8	7.6	52.8	257.1	171.8	431.0	9.0	5.4	107.3
36	Electric and electronic equipment	-	26	13	2.3	28.7	1.7	3.0	17.2	43.3	59.1	104.6	2.5	3.7	57.5
364	Electric lighting and wiring equipment	-	8	5	0.7	6.3	0.5	0.8	3.6	9.7	26.8	37.6	(D)	0.5	7.2
	York County	-	**605**	**285**	**52.2**	**655.9**	**39.7**	**77.4**	**428.9**	**1 364.9**	**1 378.9**	**2 688.9**	**79.5**	**50.0**	**772.9**
20	Food and kindred products	-	72	28	3.1	31.3	2.1	4.0	17.7	76.1	150.8	226.9	4.4	3.5	53.0
2052	Cookies and crackers	-	7	4	0.5	5.1	0.4	0.6	2.8	7.9	9.4	17.3	1.5	(NA)	(NA)
21	Tobacco products	E2	10	4	0.5	3.3	0.4	0.7	2.5	7.5	7.3	12.5	0.1	(NA)	(NA)
22	Textile mill products	E4	17	12	3.5	29.0	3.2	6.2	24.2	61.4	49.8	110.2	1.4	(NA)	(NA)
2221	Weaving mills, manmade fiber and silk	-	4	4	0.5	4.8	0.4	0.9	4.3	6.8	8.8	15.7	0.2	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includas counties with 450 employaas or mora and industry groups and industrias with 450 amployees or more within countias, excapt thosa that would disclosa oparations of individual companias. For axplanation of terms, sae appendix B]

SIC coda	County and industry	1977												1972	
			All astablishmants		All amployaas		Production workars			Valua addad by manufactura (million dollars)	Cost of matarials[2] (million dollars)	Valua of shipmants[2] (million dollars)	New capital axpendituras (million dollars)	All amployaas (1,000)	Valua addad by manufactura (million dollars)
		E[1]	Total (no.)	With 20 amployaes or mora (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	York County—Con.														
23	Apparel and othar taxtile products	-	43	32	3.6	22.2	3.3	5.5	18.8	32.6	22.2	53.1	0.6	4.7	29.5
233	Women's and misses' outarwear	-	20	19	1.8	10.8	1.7	2.6	9.8	13.1	1.3	14.3	(D)	1.8	10.3
2361	Children's dresses and blouses	-	6	5	0.6	4.3	0.6	1.0	3.1	5.6	4.2	10.0	0.1	(NA)	(NA)
24	Lumber and wood products	-	41	14	0.9	9.1	0.7	1.5	6.8	18.1	18.2	36.4	0.8	1.4	14.1
25	Furniture and fixtures	-	28	13	2.0	23.9	1.6	3.2	18.0	48.3	34.2	78.5	1.9	(NA)	(NA)
27	Printing and publishing	-	57	22	3.4	40.5	2.7	5.2	30.8	76.6	53.4	130.3	4.6	(NA)	(NA)
275	Commercial printing	-	34	9	1.3	12.8	1.0	1.9	8.9	18.8	12.2	30.8	(D)	0.6	8.6
2751	Commercial printing, letterprass	-	16	4	0.5	5.9	0.3	0.6	3.4	9.7	6.4	16.0	(D)	(NA)	(NA)
30	Rubbar and miscellanaous plastics products	-	15	4	0.7	7.4	0.6	1.1	5.2	11.7	12.0	23.4	0.4	0.5	5.5
31	Laathar and leather products	-	10	5	1.2	9.0	1.2	2.3	8.2	15.7	25.0	40.5	(D)	1.2	23.2
--	Administrative and auxiliary	-	12	7	1.1	16.5	-	-	-	-	-	-	-	(NA)	(NA)

Nota: "County" laval includas data on numbar of establishmants, total amployment, and total payroll for cantral administrativa officas and auxiliarias (for definition, see appendix B).
- Raprasents zero. (D) Withhald to avoid disclosing oparations of individual companias. (NA) Not available. (Z) Lass than 50 thousand dollars or hours; undar 50 amployaes.
[1]Payroll and sales data for small single-unit companias with up to 20 amployees (cutoff variad by industry) wara obtainad from administrativa racords of othar govarnment agancias rather than from census report forms. Thasa data wara than usad in conjunction with industry avaragas to astimata tha balanca of itams shown for thasa small establishmants. This tachniqua was also usad for a small numbar of othar establishments whosa reports wara not raceivad at tima data ware tabulatad. Tha following symbols ara shown for thosa Statas whara astimated data basad on administrative records data account for 10 percent or mora of figuras shown: E1—10 to 19 parcant; E2—20 to 29 percant; E3—30 to 39 parcent; E4—40 to 49 parcant; E5—50 to 59 parcant; E6—60 to 69 percant; E7—70 to 79 percent; E8—80 to 89 parcant; E9—90 to 99 parcant; E0—100 parcant.
[2]Aggregate of cost of matarials and valua of shipmants for industry groups (2- and 3-digit) and for all manufacturing industrias includas axtansiva duplication, sinca products of some industries ara used as materials by others (see appandix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972

[Includes places with 450 amployeas or more and industry groups and industries with 450 employeas or mora within placas, excapt thosa that would disclose oparations of individual companias. For axplanation of tarms, see appendix B]

SIC code	Placa and industry	1977												1972	
			All astablishments		All amployees		Production workers			Valua addad by manufactura (million dollars)	Cost of matarials[2] (million dollars)	Valua of shipmants[2] (million dollars)	New capital axpandituras (million dollars)	All amployaes (1,000)	Valua addad by manufactura (million dollars)
		E[1]	Total (no.)	With 20 amployees or mora (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Abington twp	-	**44**	**9**	**0.5**	**6.9**	**0.3**	**0.5**	**2.6**	**9.9**	**7.7**	**17.5**	**0.4**	**(D)**	**(D)**
	Allentown	-	**260**	**128**	**25.1**	**366.4**	**18.6**	**36.5**	**237.5**	**800.2**	**1 029.1**	**1 823.6**	**32.8**	**29.1**	**488.3**
20	Food and kindred products	-	18	5	1.3	19.0	0.9	1.9	13.0	38.2	162.6	199.3	1.5	2.1	26.3
22	Textile mill products	E1	34	25	2.6	24.1	2.2	4.2	17.2	50.2	55.4	106.4	6.0	3.2	45.7
225	Knitting mills	E1	24	19	2.2	20.7	1.9	3.6	14.5	41.4	49.5	91.7	5.6	(NA)	(NA)
23	Apparel and othar textila products	-	78	51	4.9	37.5	4.2	7.2	28.5	55.2	52.2	107.9	1.5	5.9	53.5
233	Women's and misses' outerwear	-	45	33	2.3	15.7	2.1	3.4	13.1	16.7	16.5	32.9	1.0	(NA)	(NA)
2331	Women's and missas' blouses and waists	-	25	21	1.5	10.4	1.3	2.2	8.5	10.5	15.4	25.6	0.9	(NA)	(NA)
27	Printing and publishing	-	30	7	1.0	13.0	0.5	0.9	5.7	25.4	13.1	38.4	0.6	(NA)	(NA)
34	Fabricated metal products	-	18	6	1.5	22.7	1.1	2.0	14.9	44.3	62.9	109.8	1.5	(NA)	(NA)
35	Machinery, excapt electrical	-	18	6	0.8	11.4	0.5	1.0	6.8	40.7	42.0	87.0	1.2	(NA)	(NA)
--	Administrative and auxiliary	-	10	5	1.1	28.8	-	-	-	-	-	-	-	(NA)	(NA)
	Altoona	-	**58**	**27**	**6.1**	**62.2**	**4.7**	**8.7**	**43.1**	**165.8**	**130.8**	**293.5**	**8.9**	**7.7**	**107.8**
20	Food and kindrad products	-	14	10	1.0	10.4	0.6	1.2	5.9	28.6	28.6	56.8	2.2	1.0	13.4

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Ambler	-	22	8	0.6	8.0	0.4	0.8	4.6	13.1	14.7	27.9	0.5	0.7	10.6
	Archbald	-	16	9	1.9	24.1	1.7	3.1	20.0	32.8	43.2	73.5	(D)	2.0	21.8
	Ashland	-	10	6	0.9	8.4	0.7	1.4	5.9	15.9	15.5	28.9	(D)	0.7	8.0
	Aston twp	-	19	9	0.8	10.7	0.3	0.6	3.0	43.2	59.4	91.5	1.0	(D)	(D)
	Avoca	-	9	6	0.5	3.0	0.4	0.7	2.5	7.4	7.7	14.9	(D)	0.5	2.9
	Baldwin	-	9	2	0.6	11.6	0.1	0.2	1.4	7.9	3.6	11.4	0.3	(D)	(D)
	Bangor	-	37	20	1.8	16.8	1.5	2.7	13.2	41.9	48.9	89.1	1.0	1.7	32.0
2331	Women's and misses' blouses and waists	-	14	11	0.5	2.7	0.4	0.7	2.4	3.5	0.3	3.8	0.1	(NA)	(NA)
	Beaver Falls	-	26	9	6.4	114.0	4.9	9.8	86.0	121.9	268.9	377.4	(D)	6.1	103.2
	Bellefonte	-	16	8	2.1	27.6	1.7	3.7	22.2	56.1	66.4	120.8	2.4	1.8	34.3
	Bensalem	-	172	62	5.5	79.5	3.2	6.3	33.3	136.7	161.0	297.1	5.8	3.6	68.7
34	Fabricated metal products	E3	30	16	1.5	18.7	1.1	2.1	11.5	37.1	40.8	76.3	1.6	1.2	19.5
35	Machinery, except electrical	-	41	13	0.8	10.1	0.5	1.0	5.4	19.1	12.8	31.9	0.7	0.5	9.8
	Berwick	-	46	22	4.4	45.0	3.5	6.4	31.9	101.3	119.8	216.2	3.8	5.6	78.6
	Bethel Park	-	43	7	0.5	6.3	0.4	0.8	4.3	11.2	11.6	22.9	0.7	(NA)	(NA)
	Bethlehem	-	97	56	23.0	390.2	13.6	24.3	197.1	538.8	492.0	1 017.4	(D)	23.1	377.6
20	Food and kindred products	-	8	5	1.2	15.8	0.6	1.2	6.2	35.8	57.8	92.5	0.9	(NA)	(NA)
233	Women's and misses' outerwear	-	15	13	1.0	5.1	0.9	1.5	4.5	6.5	0.7	7.2	0.1	(NA)	(NA)
2331	Women's and misses' blouses and waists	-	8	8	0.5	2.8	0.5	0.8	2.6	3.3	0.3	3.6	0.1	(NA)	(NA)
34	Fabricated metal products	-	9	3	0.8	10.0	0.6	1.1	7.0	16.8	17.7	37.5	0.3	1.0	14.0
	Birdsboro	-	19	7	1.1	13.1	0.9	1.6	8.4	24.9	37.1	62.5	1.7	1.0	13.1
	Blairsville	-	23	6	1.2	16.2	1.0	2.1	12.1	46.9	56.1	101.9	(D)	0.8	17.7
	Bloomsburg	-	35	17	2.1	20.1	1.7	3.7	14.3	35.5	51.2	87.0	1.1	4.0	40.3
22	Textile mill products	-	8	6	1.3	11.7	1.1	2.5	9.1	16.7	32.7	49.7	0.7	(NA)	(NA)
	Boyertown	-	44	18	3.2	34.2	2.6	4.9	26.4	62.5	55.9	118.5	2.4	3.4	45.5
34	Fabricated metal products	-	11	5	0.6	7.1	0.5	0.9	5.6	14.2	14.2	27.8	0.4	0.5	9.5
	Bridgeport	-	35	11	0.7	8.0	0.6	1.1	5.6	14.3	10.7	25.1	0.7	1.8	27.8
	Bridgeville	-	20	7	1.4	24.3	1.1	1.9	17.8	30.4	74.8	104.1	(D)	0.5	11.6
	Bristol	-	41	18	2.3	29.2	1.7	3.3	18.6	108.3	119.5	226.8	3.1	3.4	79.6
	Bristol twp	-	79	34	4.4	54.4	3.1	6.0	32.6	145.0	172.1	316.7	18.3	3.3	64.4
26	Paper and allied products	-	9	6	1.0	9.5	0.8	1.4	6.3	20.9	34.3	54.3	1.7	(NA)	(NA)
27	Printing and publishing	-	11	8	1.1	10.0	0.7	1.1	5.9	21.4	7.2	28.6	(D)	(NA)	(NA)
	Brookville	-	27	9	0.9	8.8	0.8	1.4	6.9	22.5	21.2	43.7	1.8	0.5	7.8
	Canonsburg	-	34	14	3.2	43.9	2.2	5.0	31.3	93.0	71.5	165.9	2.4	4.3	68.3
	Carbondale	-	31	24	1.8	15.8	1.4	2.4	10.9	32.1	40.9	73.0	(D)	1.5	22.1
23	Apparel and other textile products	E2	13	12	0.5	2.3	0.4	0.6	2.0	3.3	0.7	4.0	(Z)	0.5	3.0
	Carlisle	-	40	20	6.7	77.9	5.1	10.4	57.0	181.9	144.3	325.7	7.5	6.3	93.3
367	Electronic components and accessories	-	7	6	1.4	14.1	1.1	2.1	9.8	36.2	17.6	54.6	1.3	(NA)	(NA)
	Catasauqua	-	12	7	0.6	7.1	0.5	0.9	5.3	13.7	12.1	25.5	0.3	1.5	20.2
	Chambersburg	-	48	23	4.9	48.6	4.1	6.9	35.9	120.2	115.1	233.9	4.6	5.2	81.3
	Cheltenham twp	-	46	6	0.5	5.4	0.4	0.7	3.6	10.5	10.4	20.8	(D)	0.5	8.5
	Chester	-	57	30	9.7	145.9	7.1	12.9	101.6	341.1	340.4	687.2	21.6	4.7	120.3
34	Fabricated metal products	-	14	8	0.9	11.1	0.7	1.4	7.8	20.6	19.6	39.2	1.0	0.7	8.9
	Clearfield	-	28	13	1.9	19.4	1.6	3.0	14.9	36.0	21.2	56.6	1.8	1.6	14.9
	Clifton Heights	-	25	8	1.1	10.6	0.9	1.7	7.1	21.0	13.8	34.2	0.6	1.2	13.8
	Coatesville	-	36	14	4.8	90.7	2.9	5.7	50.4	165.2	138.3	305.0	(D)	(D)	(D)
	Collegeville	-	17	8	0.9	10.9	0.7	1.3	7.0	21.8	17.4	38.4	1.3	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Columbia	–	**39**	**19**	**2.7**	**27.5**	**2.3**	**4.2**	**21.4**	**49.2**	**82.7**	**129.9**	**4.7**	**2.9**	**34.9**
23	Apparel and other textile products	E2	9	8	0.7	4.2	0.6	1.1	3.6	9.6	13.2	22.6	0.2	0.7	6.4
	Connellsville	–	**19**	**8**	**0.6**	**5.6**	**0.5**	**0.8**	**3.9**	**9.4**	**6.1**	**15.0**	**0.9**	**0.8**	**6.0**
	Conshohocken	–	**44**	**19**	**2.9**	**38.7**	**2.0**	**3.9**	**24.6**	**112.5**	**191.5**	**294.4**	**4.0**	**3.8**	**101.0**
	Corry	–	**25**	**14**	**2.6**	**32.9**	**2.0**	**4.0**	**22.7**	**76.8**	**62.2**	**131.4**	**6.2**	**2.3**	**36.5**
34	Fabricated metal products	–	5	4	0.8	12.2	0.6	1.2	8.5	23.4	16.5	39.7	(D)	0.8	15.6
	Curwensville	–	**11**	**5**	**1.4**	**14.4**	**1.1**	**2.1**	**10.3**	**11.9**	**105.1**	**117.0**	**1.1**	**1.4**	**25.8**
	Dallastown	–	**13**	**7**	**0.6**	**6.1**	**0.5**	**0.9**	**4.4**	**8.9**	**6.3**	**15.9**	**0.3**	**(NA)**	**(NA)**
	Derry	–	**9**	**4**	**0.7**	**9.0**	**0.5**	**1.0**	**6.5**	**12.9**	**8.1**	**21.6**	**(D)**	**(D)**	**(D)**
	Dickson City	–	**24**	**11**	**0.8**	**5.4**	**0.7**	**1.0**	**4.1**	**7.7**	**4.9**	**12.6**	**(D)**	**0.7**	**4.9**
23	Apparel and other textile products	–	8	7	0.5	3.0	0.5	0.7	2.5	3.8	0.7	4.5	(Z)	0.5	2.4
	Donora	–	**13**	**6**	**0.5**	**5.6**	**0.4**	**0.7**	**3.7**	**19.3**	**24.9**	**36.6**	**1.1**	**0.5**	**6.4**
	Downingtown	–	**31**	**12**	**3.6**	**49.7**	**2.7**	**5.5**	**33.8**	**98.8**	**152.1**	**250.5**	**4.9**	**3.3**	**58.4**
	Doylestown	–	**44**	**11**	**1.6**	**17.0**	**1.2**	**2.6**	**11.6**	**33.6**	**30.0**	**63.2**	**1.8**	**1.7**	**19.6**
	Du Bois	–	**35**	**13**	**2.1**	**18.6**	**1.7**	**3.3**	**13.4**	**40.6**	**54.5**	**96.7**	**2.2**	**0.5**	**6.4**
	Dunmore	–	**28**	**17**	**1.6**	**15.4**	**1.2**	**2.2**	**10.8**	**34.1**	**30.4**	**61.2**	**(D)**	**4.3**	**88.5**
	East Hempfield twp	–	**37**	**19**	**2.3**	**28.7**	**1.6**	**3.2**	**17.0**	**62.8**	**156.1**	**217.3**	**5.3**	**0.7**	**15.9**
34	Fabricated metal products	–	5	3	0.8	9.8	0.5	1.0	5.3	21.6	40.0	61.1	(D)	(NA)	(NA)
	Easton	–	**57**	**21**	**2.6**	**25.7**	**1.7**	**2.9**	**12.7**	**45.8**	**43.4**	**88.0**	**5.7**	**5.9**	**85.0**
23	Apparel and other textile products	–	12	8	0.9	5.7	0.8	1.2	4.8	7.0	1.7	8.7	(D)	1.5	10.3
	East Stroudsburg	–	**25**	**16**	**1.9**	**24.2**	**1.4**	**2.6**	**16.1**	**65.8**	**40.7**	**106.1**	**2.5**	**1.9**	**37.1**
	Elizabethtown	–	**23**	**8**	**1.2**	**15.0**	**0.9**	**1.6**	**9.4**	**37.7**	**82.5**	**116.1**	**9.6**	**1.4**	**15.7**
	Ellwood City	–	**24**	**12**	**1.6**	**23.7**	**1.2**	**2.3**	**15.2**	**61.8**	**61.9**	**126.6**	**7.6**	**(D)**	**(D)**
34	Fabricated metal products	–	8	4	0.8	12.6	0.7	1.3	8.8	25.3	30.9	57.8	2.7	(NA)	(NA)
	Emmaus	–	**25**	**13**	**1.7**	**16.1**	**1.1**	**2.0**	**8.7**	**41.1**	**35.3**	**76.2**	**2.8**	**2.0**	**26.0**
23	Apparel and other textile products	–	7	5	0.5	3.7	0.5	0.8	3.2	4.9	0.9	5.8	0.1	(NA)	(NA)
	Ephrata	–	**33**	**23**	**3.2**	**26.6**	**2.4**	**4.2**	**17.6**	**41.4**	**44.4**	**86.3**	**2.0**	**3.3**	**40.2**
23	Apparel and other textile products	–	8	7	1.2	8.2	0.8	1.3	4.3	11.9	16.5	28.2	0.3	1.1	8.8
	Erie	–	**240**	**94**	**16.4**	**241.0**	**11.5**	**22.2**	**147.4**	**430.6**	**432.9**	**870.2**	**28.6**	**18.1**	**306.4**
20	Food and kindred products	–	16	6	0.7	9.4	0.4	0.8	4.3	21.8	36.3	57.7	2.5	0.9	21.1
27	Printing and publishing	E1	28	7	0.8	8.9	0.5	0.8	5.0	18.6	8.2	26.8	0.3	0.7	13.1
30	Rubber and miscellaneous plastics products	–	12	7	1.7	20.9	1.0	2.0	11.1	36.1	26.8	62.2	1.9	1.9	29.6
33	Primary metal industries	–	13	10	2.3	31.1	1.8	3.4	22.8	44.4	54.4	103.6	5.9	2.0	26.6
34	Fabricated metal products	–	47	22	3.1	42.5	2.3	4.1	28.0	89.6	74.3	165.8	4.3	3.4	52.6
344	Fabricated structural metal products	–	13	5	1.1	15.3	0.7	1.2	8.3	33.4	27.6	62.8	(D)	(NA)	(NA)
346	Metal forgings and stampings	–	4	4	0.8	11.9	0.7	1.2	9.5	23.3	26.6	49.5	(D)	(NA)	(NA)
35	Machinery, except electrical	–	56	18	2.7	39.9	1.9	3.7	25.9	71.4	86.7	160.1	2.4	3.6	71.1
354	Metalworking machinery	–	19	4	0.5	8.1	0.3	0.7	4.9	15.3	9.3	23.3	0.8	(NA)	(NA)
	Exeter	–	**13**	**8**	**0.9**	**7.5**	**0.8**	**1.8**	**6.1**	**10.0**	**27.1**	**37.4**	**(D)**	**1.3**	**11.2**
	Exeter twp	–	**8**	**5**	**0.5**	**4.8**	**0.5**	**0.8**	**3.5**	**11.2**	**10.3**	**21.1**	**0.4**	**(NA)**	**(NA)**
	Falls twp	–	**37**	**22**	**9.6**	**186.1**	**7.5**	**14.3**	**141.4**	**331.7**	**654.8**	**982.4**	**13.7**	**(D)**	**(D)**
	Fleetwood	–	**18**	**8**	**1.1**	**11.3**	**0.9**	**1.9**	**9.1**	**40.9**	**30.5**	**70.6**	**1.4**	**0.9**	**14.6**
	Folcroft	–	**32**	**18**	**1.4**	**16.3**	**1.0**	**1.9**	**9.9**	**44.1**	**94.9**	**139.2**	**2.3**	**1.1**	**19.3**
	Fountain Hill	–	**12**	**5**	**0.6**	**4.7**	**0.6**	**1.1**	**3.7**	**7.5**	**8.2**	**15.8**	**0.3**	**(D)**	**(D)**
23	Apparel and other textile products	E2	7	4	0.5	3.5	0.5	0.9	2.9	5.5	5.1	10.6	0.1	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Franklin	-	35	12	4.7	69.5	2.8	5.5	44.1	154.3	155.5	306.5	7.9	3.9	72.3
	Freeland	-	11	7	0.5	3.7	0.4	0.7	2.9	5.9	3.4	9.5	0.4	0.6	4.8
	Gettysburg	-	38	12	0.9	7.8	0.7	1.3	5.2	19.0	36.6	55.4	0.6	1.3	14.7
	Greencastle	-	23	11	0.9	8.8	0.7	1.4	5.6	16.3	25.6	42.3	2.9	1.1	10.2
	Greensburg	-	68	21	1.5	19.4	1.1	2.1	12.2	38.1	27.5	65.5	2.1	1.9	30.9
	Greenville	-	24	6	1.7	26.0	1.3	2.4	18.6	55.9	100.1	157.5	2.4	2.2	40.7
	Grove City	-	23	6	1.7	23.3	1.3	2.9	17.8	64.3	46.5	111.8	(D)	1.9	19.9
	Hamburg	-	35	22	2.3	24.9	1.9	3.7	18.7	57.7	90.6	147.6	3.1	2.1	37.8
33	Primary metal industries	-	5	5	0.5	6.3	0.4	0.9	4.3	10.4	5.0	15.6	0.6	0.6	6.3
332	Iron and steel foundries	-	5	5	0.5	6.3	0.4	0.9	4.3	10.4	5.0	15.6	0.6	(NA)	(NA)
	Hanover twp	-	26	10	1.1	10.3	1.0	1.7	8.5	22.2	15.1	37.8	0.7	1.4	12.1
23	Apparel and other textile products	-	6	6	0.5	3.2	0.4	0.6	2.5	5.5	2.4	7.9	(D)	(NA)	(NA)
	Hanover	-	85	43	6.1	59.8	5.0	9.7	44.3	114.7	122.6	236.1	6.3	6.4	88.2
20	Food and kindred products	E1	15	5	0.6	7.1	0.4	0.7	3.4	13.4	13.1	26.5	0.7	0.7	9.5
27	Printing and publishing	-	11	3	0.7	6.4	0.6	1.2	4.8	10.3	5.1	15.5	(D)	(NA)	(NA)
31	Leather and leather products	-	7	5	1.2	8.8	1.2	2.2	8.1	15.3	24.6	39.8	(D)	(NA)	(NA)
33	Primary metal industries	-	7	5	0.7	6.1	0.6	1.2	5.3	12.4	11.2	23.1	0.5	(NA)	(NA)
	Harrisburg	-	87	34	5.0	63.3	3.3	6.3	38.1	149.3	110.8	256.0	7.8	6.3	118.3
27	Printing and publishing	-	25	7	1.1	13.6	0.6	1.1	7.3	29.9	17.4	47.2	0.7	1.1	22.4
	Hatboro	-	47	13	1.3	14.8	1.1	2.1	11.4	87.4	32.0	119.1	1.3	1.4	65.2
	Hatfield twp	-	16	11	0.7	9.0	0.4	0.8	5.1	22.5	16.3	38.2	(D)	(NA)	(NA)
	Haverford twp	-	19	1	0.9	7.3	0.7	1.4	4.7	12.7	5.2	17.6	0.3	0.6	6.8
	Hazleton	-	94	49	5.2	47.7	4.3	7.4	35.6	80.6	103.2	187.7	5.2	5.8	84.5
23	Apparel and other textile products	E2	34	25	2.0	11.4	1.9	2.9	10.1	17.7	7.7	26.1	0.2	2.2	18.0
233	Women's and misses' outerwear	E2	23	17	1.4	7.8	1.3	2.1	6.8	11.0	2.4	13.3	(D)	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	E2	8	6	0.7	4.3	0.6	1.1	3.8	6.0	1.5	7.5	(D)	(NA)	(NA)
33	Primary metal industries	-	3	3	0.5	6.9	0.4	0.8	4.8	8.1	19.9	28.8	(D)	(NA)	(NA)
	Hempfield twp	-	13	6	0.7	6.8	0.5	1.0	5.1	11.2	20.1	31.4	0.3	0.5	5.7
	Honesdale	-	22	10	1.3	12.7	1.1	2.0	9.1	37.3	56.3	91.8	(D)	1.4	25.6
	Horsham twp	-	45	22	2.5	34.6	1.1	2.3	12.7	64.5	58.4	118.6	5.3	1.0	14.7
35	Machinery, except electrical	-	8	4	1.0	15.5	0.3	0.7	4.0	24.4	27.6	50.6	(D)	0.7	10.3
	Huntingdon	-	16	7	1.4	15.0	1.2	2.4	12.3	37.5	24.9	63.0	(D)	1.9	24.6
	Indiana	-	31	9	2.0	22.6	1.5	2.8	15.1	38.7	52.0	92.6	(D)	1.0	18.5
	Irwin	-	22	6	0.5	7.0	0.3	0.6	3.9	13.1	9.9	23.3	0.5	1.0	12.6
	Jeannette	-	30	13	5.3	75.5	3.4	6.8	43.9	168.5	88.8	258.9	8.5	5.2	93.3
	Johnstown	-	52	24	13.3	228.0	10.2	17.4	166.9	328.7	428.0	796.7	20.1	16.2	260.8
	Kennett Square	-	28	9	1.1	11.7	0.9	1.6	8.2	26.5	36.8	63.1	1.6	0.9	14.5
	Kingston	-	23	10	1.2	10.1	1.0	1.8	7.1	21.6	21.3	43.1	0.3	2.6	25.9
	Kittanning	-	18	11	1.0	9.4	0.9	1.6	6.8	15.7	21.3	37.3	1.8	0.8	12.9
	Kutztown	-	21	10	1.3	10.9	1.1	2.1	8.3	19.2	13.5	31.1	1.1	1.4	11.9
	Lancaster	-	150	64	15.2	206.4	11.3	22.5	131.6	449.5	384.4	828.1	49.6	8.7	163.7
20	Food and kindred products	E1	12	6	0.5	6.4	0.4	0.8	4.6	10.5	29.3	39.1	(D)	0.8	9.6
27	Printing and publishing	-	29	10	1.6	22.3	1.2	2.4	14.5	44.4	23.1	67.2	1.7	1.2	19.7
34	Fabricated metal products	-	27	17	2.4	27.6	2.0	3.9	21.7	63.7	58.1	120.2	2.3	1.9	38.0
35	Machinery, except electrical	-	15	4	0.9	11.4	0.7	1.5	8.7	30.9	18.3	48.9	0.8	0.6	12.8
	Lansdale	-	82	29	5.0	67.1	3.7	7.4	43.3	138.6	261.4	401.1	3.8	5.8	102.5
35	Machinery, except electrical	-	21	6	0.6	8.4	0.4	0.9	5.0	16.4	13.5	29.6	0.6	0.7	11.7

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Lansford	-	14	6	0.6	4.5	0.6	1.0	3.2	10.1	6.9	16.8	(D)	0.6	5.8
	Latrobe	-	39	17	4.5	73.5	2.8	5.4	44.3	166.2	159.8	328.5	9.9	5.0	96.4
33	Primary metal industries	-	6	5	2.4	43.1	1.6	3.1	28.1	73.5	51.2	125.1	5.3	3.1	50.3
	Lebanon	-	76	48	7.0	84.3	5.3	9.5	58.6	163.7	204.8	359.3	8.8	7.2	83.8
2331	Women's and misses' blouses and waists	-	7	6	0.5	3.2	0.5	0.7	2.8	4.0	0.8	4.7	(D)	(NA)	(NA)
	Lehighton	-	32	10	1.7	12.4	1.5	2.6	10.0	16.8	9.9	26.6	0.7	1.4	10.6
23	Apparel and other textile products	-	7	7	1.2	7.4	1.1	1.8	6.6	8.7	1.0	9.5	(D)	0.7	4.3
233	Women's and misses' outerwear	-	7	7	1.2	7.4	1.1	1.8	6.6	8.7	1.0	9.5	(D)	(NA)	(NA)
	Lewisburg	-	14	6	1.5	14.7	1.2	2.6	10.6	27.9	32.0	58.8	(D)	1.6	27.0
	Lititz	-	38	15	2.9	30.3	2.2	4.7	21.1	123.4	154.6	273.9	2.1	2.1	94.8
31	Leather and leather products	-	5	4	0.7	5.2	0.6	1.3	4.1	10.2	9.4	17.2	(D)	(NA)	(NA)
	Lock Haven	-	22	10	4.3	53.9	3.4	6.7	40.0	72.1	117.3	184.5	(D)	3.7	38.5
	Lower Allen twp	-	9	6	1.2	11.2	0.5	0.8	4.0	25.9	103.0	127.4	1.1	(NA)	(NA)
	Lower Merion twp	-	71	11	1.4	17.6	0.5	0.9	5.4	17.7	15.8	33.8	0.9	5.5	68.9
--	Administrative and auxiliary	-	13	5	0.5	8.0	-	-	-	-	-	-	-	(NA)	(NA)
	Lower Moreland twp	-	80	23	2.0	27.4	1.5	3.0	18.4	52.2	44.1	95.2	3.2	1.7	25.6
35	Machinery, except electrical	-	27	9	0.9	13.4	0.7	1.2	9.4	23.2	16.8	39.4	0.8	0.9	13.8
356	General industrial machinery	-	6	6	0.5	7.3	0.3	0.7	4.3	10.6	9.5	20.4	0.2	(NA)	(NA)
	Lower Providence twp	-	19	9	2.1	28.9	1.4	3.0	18.7	49.7	28.3	76.0	2.1	1.5	21.7
	Lower Southampton twp	-	61	16	1.1	15.1	0.8	1.7	9.1	28.9	23.7	52.4	1.8	(D)	(D)
	Loyalsock twp	-	11	8	0.8	10.9	0.4	1.3	4.3	18.4	23.1	42.0	0.6	(NA)	(NA)
	Lykens	-	8	4	0.6	7.9	0.5	1.0	5.1	14.9	9.2	23.9	0.2	0.6	8.5
	McKees Rocks	-	22	10	1.6	21.8	1.1	2.3	14.9	37.1	23.7	60.6	1.3	(D)	(D)
	Mahanoy City	-	7	6	0.8	5.5	0.8	1.3	4.8	8.6	4.9	13.3	0.1	(D)	(D)
	Malvern	-	24	10	0.5	7.5	0.3	0.5	2.9	11.0	9.3	20.3	0.5	(D)	(D)
	Manheim	-	30	11	2.0	24.2	1.5	2.7	17.2	61.3	51.4	112.0	2.2	2.3	36.5
	Manheim twp	-	51	24	4.3	69.7	2.2	4.6	30.4	128.3	220.5	341.7	9.5	2.6	41.3
	Marietta	-	12	4	0.7	7.9	0.6	1.1	6.5	25.8	21.4	47.2	(D)	(D)	(D)
	Marple twp	-	35	10	0.8	7.6	0.5	0.9	4.6	17.8	13.2	30.9	0.9	0.6	10.3
	Meadville	-	74	22	4.8	58.7	3.4	6.8	38.0	96.4	79.8	175.6	4.7	6.2	107.7
35	Machinery, except electrical	-	35	10	0.8	12.3	0.6	1.2	8.1	22.0	9.2	31.3	1.0	(NA)	(NA)
	Mechanicsburg	-	29	16	1.8	19.6	1.3	2.7	13.2	47.5	61.0	108.6	2.6	1.8	36.7
	Middletown twp	-	20	8	2.9	54.5	1.9	3.2	24.9	117.9	128.1	246.3	(D)	2.0	66.3
	Mifflinburg	-	8	5	0.6	4.8	0.6	1.1	4.1	8.3	10.6	19.4	(D)	(D)	(D)
	Millcreek twp	-	107	42	5.1	75.4	3.0	5.9	35.8	150.4	116.0	265.0	7.9	4.4	72.8
30	Rubber and miscellaneous plastics products	E1	15	9	0.7	7.5	0.5	1.1	5.1	14.6	15.0	29.6	2.0	0.7	12.6
3079	Miscellaneous plastics products	E1	15	9	0.7	7.5	0.5	1.1	5.1	14.6	15.0	29.6	2.0	(NA)	(NA)
34	Fabricated metal products	-	21	10	0.9	10.9	0.6	1.2	6.5	19.9	16.8	36.7	1.8	0.8	13.8
35	Machinery, except electrical	-	29	9	0.7	11.5	0.5	1.1	7.2	19.6	7.9	27.3	0.7	(NA)	(NA)
	Millersburg	-	15	7	1.6	12.3	1.4	2.7	10.1	22.3	16.5	38.0	0.4	1.9	15.6
	Milton	-	21	15	3.8	48.7	3.1	6.3	37.6	117.1	184.0	302.2	3.1	3.7	63.2
	Monaca	-	20	13	4.5	67.6	3.3	6.1	45.2	119.6	250.3	378.5	(D)	4.3	77.8
331	Blast furnace and basic steel products	-	4	4	0.8	12.1	0.6	1.1	9.6	25.6	28.0	53.6	(D)	(NA)	(NA)
	Monongahela	-	11	4	0.8	11.2	0.6	1.2	9.1	18.6	20.5	39.0	0.9	0.9	16.9
	Monroeville	-	27	8	0.6	7.1	0.2	0.4	2.0	10.3	9.6	19.9	0.4	(NA)	(NA)
	Montoursville	-	16	7	2.5	27.3	2.2	3.9	22.2	80.5	43.2	128.4	0.7	2.2	58.9

See footnotes at end of table.

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	Moosic	-	14	9	0.6	6.8	0.4	0.9	4.0	14.6	22.2	37.2	2.3	1.5	17.5
	Morrisville	-	27	11	1.3	16.0	1.0	2.0	11.5	54.2	66.2	121.6	2.2	2.0	39.1
30	Rubber and miscellaneous plastics products	-	5	4	0.5	5.7	0.4	0.8	4.3	9.3	7.3	16.4	0.7	0.6	7.1
	Mount Carmel	-	15	7	0.6	3.7	0.6	0.8	3.1	5.8	4.4	10.2	0.2	1.0	8.6
23	Apparel and other textile products	-	7	5	0.5	2.6	0.5	0.7	2.5	3.5	0.2	3.7	(Z)	0.6	3.2
	Mount Joy	-	18	9	1.3	13.0	1.1	2.1	9.9	56.2	61.1	115.4	2.2	1.6	50.3
	Mount Pleasant twp	-	9	6	1.3	16.1	1.1	2.0	12.4	28.6	22.5	50.5	1.5	0.9	10.5
	Mount Union	-	7	3	0.5	6.0	0.4	0.8	5.1	13.8	4.9	19.8	(D)	1.3	13.3
	Muhlenberg twp	-	35	24	6.4	98.8	4.2	8.3	56.3	210.5	208.4	413.9	21.2	1.9	35.7
20	Food and kindred products	-	9	8	0.6	8.4	0.5	0.8	3.8	19.2	57.0	76.5	1.6	0.5	7.0
--	Administrative and auxiliary	-	3	3	0.7	11.6	-	-	-	-	-	-	-	(NA)	(NA)
	Muncy	-	6	4	1.5	18.3	0.8	1.6	9.2	40.1	32.0	71.7	(D)	1.8	28.0
	Myerstown	-	25	11	2.2	27.4	1.7	3.2	19.7	125.4	51.4	179.1	5.2	2.3	103.5
	Nanticoke	-	11	7	0.5	4.0	0.5	0.8	2.9	8.8	13.1	22.1	0.1	0.6	4.1
	Nazareth	-	43	22	2.6	28.6	2.1	3.8	19.3	45.6	45.5	92.9	(D)	3.1	46.1
23	Apparel and other textile products	-	14	10	0.7	4.5	0.7	1.1	4.0	6.9	3.3	10.4	(D)	1.0	7.8
32	Stone, clay, and glass products	-	5	3	0.6	9.2	0.5	0.9	6.6	16.0	15.1	32.4	(D)	0.9	23.1
	Nesquehoning	-	14	7	0.6	5.3	0.5	0.9	3.6	15.5	14.6	30.3	(D)	0.7	9.2
	New Brighton	-	22	9	0.5	6.5	0.4	0.8	4.3	12.9	12.9	25.5	0.8	0.5	6.6
	New Castle	-	81	33	5.4	77.9	4.0	7.7	52.8	155.6	163.6	315.0	11.2	5.4	87.2
32	Stone, clay, and glass products	-	12	6	1.7	19.4	1.2	2.2	12.4	33.1	22.0	54.6	1.2	1.8	22.1
34	Fabricated metal products	-	15	7	0.9	16.4	0.7	1.5	12.0	37.1	33.8	71.7	3.7	1.1	24.2
35	Machinery, except electrical	-	13	5	0.9	11.9	0.7	1.1	7.7	24.0	14.1	37.2	(D)	0.8	6.4
	New Holland	-	25	13	5.2	78.8	2.9	6.1	35.3	138.7	155.2	284.4	6.5	3.8	62.5
	New Kensington	-	31	9	0.9	9.8	0.8	1.4	7.6	19.7	27.4	48.4	0.8	1.9	14.5
	Norristown	-	73	25	2.9	33.7	1.7	3.5	18.0	89.5	73.6	162.5	10.7	3.6	80.7
23	Apparel and other textile products	E1	7	6	0.5	4.0	0.4	0.7	3.0	9.1	6.6	14.9	0.2	0.5	4.4
35	Machinery, except electrical	-	11	4	0.9	9.6	0.2	0.5	3.3	20.7	9.8	32.0	0.2	0.8	28.0
	Northampton	-	21	14	2.5	23.4	2.2	3.8	19.1	37.3	33.1	70.5	1.0	2.3	27.7
23	Apparel and other textile products	-	11	10	2.0	15.4	1.8	3.0	12.8	22.3	19.6	41.8	(D)	2.0	21.1
	North East	-	17	7	1.2	15.9	0.8	1.7	9.7	44.4	50.5	98.3	2.0	1.2	33.1
	North Huntingdon twp	-	22	8	0.7	8.5	0.4	0.8	4.9	16.5	15.8	32.2	0.9	(NA)	(NA)
	North Union twp	-	6	4	0.7	8.6	0.6	1.1	6.4	17.3	20.7	37.9	0.3	(NA)	(NA)
	North Wales	-	27	13	3.6	54.9	1.8	3.4	21.7	102.8	56.4	159.7	5.5	3.8	67.5
	Old Forge	-	29	16	1.1	8.0	0.9	1.5	5.7	17.1	13.2	30.3	1.0	1.4	12.6
23	Apparel and other textile products	E1	15	10	0.7	4.0	0.6	1.0	3.1	9.0	2.5	11.4	(D)	0.8	4.1
	Olyphant	-	14	9	0.8	6.9	0.8	1.4	5.8	10.6	11.0	21.6	0.9	0.8	5.3
23	Apparel and other textile products	-	7	6	0.5	3.3	0.5	0.8	2.9	4.4	0.6	5.0	(D)	0.6	3.2
	Orwigsburg	-	16	10	0.9	6.5	0.8	1.4	5.4	10.2	8.5	18.7	0.2	1.3	10.7
23	Apparel and other textile products	-	4	4	0.5	2.8	0.4	0.7	2.5	3.8	3.1	7.0	(Z)	(NA)	(NA)
	Palmer twp	-	8	5	1.1	13.4	0.7	1.5	8.0	29.4	24.0	53.6	1.0	1.2	21.0
	Palmyra	-	19	8	0.9	7.8	0.8	1.6	6.2	15.5	19.4	35.0	0.2	(D)	(D)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Penn Argyl	-	**32**	**20**	**1.3**	**9.3**	**1.2**	**2.1**	**7.9**	**15.5**	**14.1**	**30.1**	**0.2**	**2.1**	**17.6**
23	Apparel and other textile products	-	18	14	0.9	5.6	0.8	1.4	4.9	8.7	4.9	13.8	(D)	1.2	7.5
2331	Women's and misses' blouses and waists	-	14	11	0.5	3.4	0.5	0.8	3.0	4.5	0.3	4.9	(Z)	(NA)	(NA)
	Penn Hills twp	-	30	7	**0.7**	**9.3**	**0.4**	**0.8**	**5.6**	**15.3**	**26.3**	**42.7**	**0.5**	**0.6**	**10.5**
	Perkasie	-	**34**	**15**	**1.7**	**17.9**	**1.4**	**2.5**	**13.6**	**27.5**	**39.7**	**67.4**	**1.6**	**1.9**	**25.7**
23	Apparel and other textile products	-	5	5	0.6	4.9	0.6	1.0	4.3	3.7	10.0	13.8	(D)	(NA)	(NA)
	Philadelphia	-	**2 816**	**1 047**	**157.5**	**2 104.5**	**106.5**	**205.1**	**1 211.2**	**4 127.7**	**6 358.4**	**10 430.7**	**200.3**	**(NA)**	**(NA)**
20	Food and kindred products	-	216	102	20.9	302.2	14.5	28.7	191.7	789.2	1 552.8	2 336.0	62.7	(NA)	(NA)
201	Meat products	E1	46	19	4.0	61.0	3.0	5.9	42.6	136.9	578.0	713.0	15.2	(NA)	(NA)
2013	Sausages and other prepared meats	E1	27	12	2.7	41.0	1.9	3.6	27.7	99.8	274.5	374.0	13.1	(NA)	(NA)
202	Dairy products	-	15	8	1.4	22.0	0.8	1.6	11.1	56.5	131.7	187.4	3.6	(NA)	(NA)
2026	Fluid milk	-	5	4	0.6	9.2	0.2	0.5	3.4	26.0	56.9	82.4	(D)	(NA)	(NA)
205	Bakery products	-	48	21	6.5	95.2	4.5	9.1	60.3	248.1	146.8	394.8	9.0	(NA)	(NA)
206	Sugar and confectionery products	-	29	18	4.4	56.5	3.4	6.5	39.9	126.1	307.2	432.3	11.9	(NA)	(NA)
2065	Confectionery products	-	22	12	1.3	11.0	1.1	1.9	8.0	28.2	42.0	69.2	0.9	(NA)	(NA)
208	Beverages	-	23	15	2.7	46.7	1.5	3.1	24.4	142.3	179.0	319.4	17.1	(NA)	(NA)
2085	Distilled liquor, except brandy	-	4	3	0.5	6.2	0.3	0.7	4.5	24.4	32.0	56.4	(D)	(NA)	(NA)
2086	Bottled and canned soft drinks	-	10	6	1.2	22.0	0.4	0.9	6.0	48.3	84.4	131.3	(D)	(NA)	(NA)
209	Miscellaneous foods and kindred products	-	28	12	1.1	11.9	0.8	1.6	8.1	55.7	145.6	201.2	4.2	(NA)	(NA)
22	Textile mill products	E1	146	76	10.4	91.7	8.8	16.1	66.4	185.7	214.0	394.8	6.0	(NA)	(NA)
225	Knitting mills	E2	43	29	5.6	46.0	4.7	8.2	32.3	93.9	110.1	200.7	3.0	(NA)	(NA)
2253	Knit outerwear mills	E2	27	24	5.3	43.4	4.5	7.6	30.3	89.9	107.1	193.5	(D)	(NA)	(NA)
226	Textile finishing, except wool	-	24	10	0.7	7.7	0.6	1.2	5.9	13.1	9.8	22.8	0.2	(NA)	(NA)
2269	Finishing plants, n.e.c.	-	13	7	0.5	5.0	0.4	0.8	3.7	7.3	7.5	14.8	0.2	(NA)	(NA)
227	Floor covering mills	-	10	4	0.6	6.7	0.5	1.0	5.1	19.1	24.8	43.6	(Z)	(NA)	(NA)
228	Yarn and thread mills	E1	15	12	0.9	7.8	0.8	1.6	6.3	14.4	20.2	34.5	0.7	(NA)	(NA)
229	Miscellaneous textile goods	-	31	12	1.2	12.9	0.9	1.9	8.2	24.3	27.3	51.2	1.5	(NA)	(NA)
23	Apparel and other textile products	-	383	197	22.2	189.7	19.1	33.5	139.6	353.1	352.9	694.4	4.7	(NA)	(NA)
2311	Men's and boys' suits and coats	-	75	53	10.6	97.8	9.1	16.2	74.4	173.3	147.0	312.7	2.1	(NA)	(NA)
232	Men's and boys' furnishings	E1	53	35	2.2	16.1	1.9	3.2	11.3	23.9	47.8	71.5	0.3	(NA)	(NA)
2327	Men's and boys' separate trousers	-	12	8	0.5	3.5	0.4	0.7	2.4	4.1	6.9	11.2	0.1	(NA)	(NA)
233	Women's and misses' outerwear	-	106	56	4.9	37.7	4.2	7.2	26.8	89.1	103.2	189.6	0.8	(NA)	(NA)
2331	Women's and misses' blouses and waists	-	13	10	0.7	5.1	0.7	1.1	4.2	12.7	5.9	18.4	0.1	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	-	26	11	1.2	8.7	1.0	1.6	5.8	22.1	38.1	59.2	0.1	(NA)	(NA)
236	Children's outerwear	-	15	13	1.3	11.3	1.2	2.0	8.4	21.7	13.3	34.2	0.2	(NA)	(NA)
239	Miscellaneous fabricated textile products	E1	105	30	2.5	21.9	2.2	3.8	15.0	36.5	32.8	69.2	0.6	(NA)	(NA)
2396	Automotive and apparel trimmings	-	17	8	0.5	5.4	0.4	0.8	3.9	9.4	11.9	21.5	0.1	(NA)	(NA)
25	Furniture and fixtures	E1	109	38	3.3	34.8	2.6	5.0	23.7	58.7	66.4	128.2	1.6	(NA)	(NA)
2514	Metal household furniture	E1	13	8	1.0	9.0	0.8	1.6	6.3	11.1	21.3	36.3	0.1	(NA)	(NA)
254	Partitions and fixtures	-	26	10	0.6	7.6	0.5	0.9	5.5	13.1	12.5	25.1	0.1	(NA)	(NA)
259	Miscellaneous furniture and fixtures	-	13	6	0.5	4.9	0.3	0.6	3.2	8.9	7.6	16.8	0.2	(NA)	(NA)
26	Paper and allied products	E1	101	57	5.9	80.1	4.5	9.0	53.6	144.8	216.3	360.1	5.8	(NA)	(NA)
2631	Paperboard mills	-	4	4	0.8	13.4	0.7	1.5	10.6	25.2	39.9	64.9	(D)	(NA)	(NA)
264	Miscellaneous converted paper products	E2	48	17	2.0	25.5	1.5	2.8	15.2	52.1	66.7	118.3	(D)	(NA)	(NA)
2642	Envelopes	-	8	4	0.6	6.9	0.4	0.8	4.2	11.0	11.3	22.2	0.7	(NA)	(NA)
265	Paperboard containers and boxes	-	47	35	3.1	40.9	2.4	4.6	27.6	67.2	107.2	173.9	3.0	(NA)	(NA)
2651	Folding paperboard boxes	-	16	8	0.7	8.6	0.6	1.1	6.0	15.0	17.8	32.3	0.6	(NA)	(NA)
2652	Setup paperboard boxes	-	8	8	0.6	5.7	0.5	0.9	4.3	8.2	8.1	16.2	0.7	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	15	13	1.4	21.6	1.0	2.0	13.5	37.1	56.7	93.6	1.4	(NA)	(NA)
27	Printing and publishing	-	458	112	20.3	280.4	12.1	21.4	157.6	502.7	302.0	808.2	24.9	(NA)	(NA)
273	Books	-	34	12	2.9	38.4	1.6	3.0	18.0	100.0	54.5	153.4	1.8	(NA)	(NA)
2731	Book publishing	-	19	7	2.3	31.8	1.0	1.9	12.7	88.9	45.5	133.1	1.3	(NA)	(NA)
2732	Book printing	-	15	5	0.6	6.6	0.5	1.1	5.3	11.1	9.0	20.2	0.6	(NA)	(NA)
275	Commercial printing	-	275	52	6.5	95.1	5.1	9.1	68.8	141.7	133.1	279.7	10.7	(NA)	(NA)
2751	Commercial printing, letterpress	E2	127	9	1.0	11.0	0.8	1.3	7.3	18.9	15.5	34.5	0.8	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Philadelphia—Con.														
28	Chemicals and allied products	-	111	45	9.3	169.7	4.3	8.4	62.9	391.6	448.0	836.9	21.5	(NA)	(NA)
284	Soaps, cleaners, and toilet goods	E1	37	13	0.7	10.0	0.4	0.7	3.9	32.5	33.5	66.0	0.7	(NA)	(NA)
2851	Paints and allied products	-	15	6	1.3	22.1	0.8	1.5	11.3	53.4	51.1	105.0	(D)	(NA)	(NA)
286	Industrial organic chemicals	-	9	6	2.7	46.1	1.7	3.3	26.9	152.9	263.7	418.5	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	65	21	1.3	14.6	1.0	1.9	9.6	32.5	26.8	58.9	3.2	(NA)	(NA)
3079	Miscellaneous plastics products	E1	54	17	1.0	10.5	0.8	1.4	6.6	24.7	19.4	43.8	2.8	(NA)	(NA)
32	Stone, clay, and glass products	-	46	17	2.0	22.5	1.5	2.8	15.1	42.7	47.4	91.5	2.3	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products	-	28	11	1.3	14.0	0.9	1.7	8.8	25.3	22.8	49.4	1.7	(NA)	(NA)
3291	Abrasive products	-	6	2	0.5	6.2	0.4	0.6	3.3	12.2	7.9	20.3	0.4	(NA)	(NA)
33	Primary metal industries	E1	50	21	2.0	27.9	1.6	3.0	18.5	49.2	97.0	148.2	4.6	(NA)	(NA)
331	Blast furnace and basic steel products	-	8	3	0.6	8.8	0.4	0.8	5.8	13.0	38.5	56.9	1.2	(NA)	(NA)
336	Nonferrous foundries	-	10	6	0.6	6.4	0.5	0.8	4.3	9.4	8.0	17.3	0.1	(NA)	(NA)
34	Fabricated metal products	-	303	102	13.4	193.1	10.4	20.8	143.9	358.5	348.1	716.8	12.6	(NA)	(NA)
342	Cutlery, hand tools, and hardware	-	24	10	1.0	13.1	0.8	1.6	9.4	23.8	19.5	46.7	1.2	(NA)	(NA)
343	Plumbing and heating, except electric	-	7	4	0.5	6.8	0.3	0.5	3.3	12.1	13.7	25.8	0.3	(NA)	(NA)
344	Fabricated structural metal products	-	127	36	2.8	31.1	2.0	3.9	20.1	57.4	72.6	130.9	2.4	(NA)	(NA)
3442	Metal doors, sash, and trim	E1	27	9	0.5	4.7	0.4	0.8	2.9	9.3	14.2	23.0	(D)	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	E1	14	7	0.5	5.4	0.4	0.7	3.8	9.5	7.8	17.9	0.1	(NA)	(NA)
3444	Sheet metal work	-	37	9	1.3	14.1	0.9	1.8	9.3	27.1	31.5	59.4	1.3	(NA)	(NA)
345	Screw machine products, bolts, etc.	-	18	7	0.6	7.5	0.4	0.9	5.9	11.8	13.7	25.5	(D)	(NA)	(NA)
347	Metal services, n.e.c.	E1	47	11	0.8	9.1	0.6	1.2	6.5	12.7	6.8	19.5	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	55	21	1.7	19.0	1.3	2.6	13.0	41.7	34.8	76.9	1.8	(NA)	(NA)
3494	Valves and pipe fittings	-	10	6	0.6	7.5	0.4	0.8	4.9	18.8	12.9	31.9	1.0	(NA)	(NA)
3496	Miscellaneous fabricated wire products	-	18	7	0.6	6.2	0.5	1.1	4.3	12.5	10.4	22.8	0.4	(NA)	(NA)
35	Machinery, except electrical	-	254	71	10.9	156.0	7.6	19.4	101.3	287.3	215.0	499.2	11.4	(NA)	(NA)
353	Construction and related machinery	-	11	8	1.8	28.0	1.4	2.7	21.6	53.1	45.7	99.2	(D)	(NA)	(NA)
354	Metalworking machinery	-	64	11	1.4	22.1	1.0	2.3	15.9	39.6	14.5	53.7	1.2	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures	-	47	9	1.2	19.9	0.9	2.1	14.5	35.0	12.2	46.8	1.1	(NA)	(NA)
355	Special industry machinery	-	31	11	1.5	20.7	0.8	1.5	10.0	32.4	27.3	59.1	0.8	(NA)	(NA)
3559	Special industry machinery, n.e.c.	-	8	4	0.9	13.0	0.5	1.0	6.6	23.0	18.7	41.0	(D)	(NA)	(NA)
358	Refrigeration and service machinery	-	18	10	1.1	9.8	0.9	5.8	6.4	20.8	15.8	35.7	0.6	(NA)	(NA)
3585	Refrigeration and heating equipment	-	12	7	1.0	8.3	0.8	5.6	5.5	18.0	13.7	30.8	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	89	14	1.5	20.3	1.3	2.6	14.5	38.7	30.6	68.5	1.7	(NA)	(NA)
36	Electric and electronic equipment	-	117	43	11.9	157.2	8.3	14.9	95.8	322.8	203.4	525.4	9.6	(NA)	(NA)
364	Electric lighting and wiring equipment	-	52	19	3.1	34.8	2.1	3.5	16.3	79.2	95.3	172.6	1.9	(NA)	(NA)
367	Electronic components and accessories	-	20	8	1.3	13.6	1.1	2.0	9.4	24.9	13.6	37.6	0.8	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	-	8	6	0.8	10.1	0.7	1.3	8.6	11.7	21.1	34.5	0.3	(NA)	(NA)
371	Motor vehicles and equipment	-	24	4	1.9	33.4	1.7	3.5	27.4	43.4	55.5	99.2	2.2	(NA)	(NA)
3714	Motor vehicle parts and accessories	-	18	4	1.9	32.9	1.7	3.4	27.0	42.4	54.3	97.0	2.2	(NA)	(NA)
38	Instruments and related products	E1	76	27	1.9	20.7	1.4	2.7	12.5	38.8	23.9	61.2	1.2	(NA)	(NA)
382	Measuring and controlling devices	-	17	8	0.6	6.4	0.4	0.8	3.9	11.1	7.7	18.3	(D)	(NA)	(NA)
384	Medical instruments and supplies	-	38	13	1.0	10.1	0.8	1.4	6.2	18.6	10.5	28.4	0.4	(NA)	(NA)
--	Administrative and auxiliary	-	72	44	9.3	158.5	-	-	-	-	-	-	-	(NA)	(NA)
	Phoenixville	-	35	14	1.9	26.0	1.4	2.7	17.4	43.6	51.2	96.4	1.2	2.8	40.4

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	Pittsburgh	–	**719**	**240**	**55.3**	**1 025.8**	**22.9**	**43.3**	**314.8**	**1 030.1**	**1 067.0**	**2 060.0**	**54.5**	**62.3**	**685.3**
20	Food and kindred products	–	56	24	5.3	72.9	3.6	7.0	45.8	205.5	254.7	457.8	(D)	5.6	104.9
34	Fabricated metal products	–	81	32	3.9	58.1	2.6	4.9	34.4	134.9	209.4	339.1	(D)	3.7	70.9
35	Machinery, except electrical	–	71	17	3.1	43.3	2.2	3.9	28.0	93.4	69.2	150.6	(D)	4.0	80.2
356	General industrial machinery	–	11	5	1.7	24.1	1.2	2.0	15.3	57.5	32.7	81.0	(D)	(NA)	(NA)
36	Electric and electronic equipment	E1	39	14	1.0	12.0	0.8	1.5	7.1	25.5	18.6	44.6	(D)	2.1	35.5
--	Administrative and auxiliary	–	61	41	22.6	542.1	–	–	–	–	–	–	–	(NA)	(NA)
	Pittston	–	**43**	**25**	**1.5**	**9.0**	**1.4**	**2.4**	**7.6**	**11.7**	**4.5**	**16.4**	**0.2**	**1.8**	**10.8**
23	Apparel and other textile products	E2	31	21	1.2	7.0	1.1	1.9	6.3	9.0	1.6	10.6	0.1	1.5	8.4
233	Women's and misses' outerwear	E2	28	19	1.1	6.4	1.0	1.7	5.8	8.0	1.4	9.4	(D)	(NA)	(NA)
2335	Women's and misses' dresses	E2	25	16	1.0	5.7	0.9	1.5	5.2	7.2	1.3	8.5	(Z)	(NA)	(NA)
	Plains twp	–	**14**	**10**	**0.6**	**5.0**	**0.6**	**1.0**	**3.9**	**9.2**	**13.8**	**22.9**	**0.1**	**1.1**	**14.9**
	Plum	–	**16**	**7**	**1.1**	**15.8**	**0.7**	**1.4**	**6.2**	**28.1**	**26.5**	**54.7**	**1.1**	**(NA)**	**(NA)**
	Plymouth	–	**12**	**10**	**0.6**	**4.5**	**0.5**	**0.9**	**3.6**	**10.2**	**6.2**	**16.4**	**(D)**	**0.6**	**3.9**
	Plymouth twp	–	**34**	**16**	**1.9**	**25.8**	**1.2**	**2.1**	**12.6**	**52.1**	**44.8**	**94.7**	**2.1**	**5.2**	**103.6**
	Portage	–	**13**	**6**	**0.6**	**4.9**	**0.5**	**1.0**	**3.9**	**8.0**	**6.8**	**14.8**	**0.8**	**0.5**	**5.8**
	Port Carbon	–	**8**	**4**	**0.7**	**6.2**	**0.6**	**1.0**	**4.5**	**11.7**	**14.5**	**25.3**	**(D)**	**0.7**	**8.3**
	Pottstown	–	**79**	**32**	**5.2**	**76.6**	**3.6**	**7.1**	**47.2**	**176.1**	**179.5**	**353.6**	**8.9**	**7.3**	**147.7**
28	Chemicals and allied products	–	7	4	0.9	16.7	0.5	1.3	8.7	42.4	66.7	108.9	(D)	(NA)	(NA)
34	Fabricated metal products	–	18	9	0.5	6.6	0.4	0.8	4.5	17.4	20.0	37.1	1.0	1.4	20.3
35	Machinery, except electrical	–	15	3	0.5	6.9	0.4	0.7	4.9	14.4	11.5	26.1	0.6	0.5	8.1
	Pottsville	–	**35**	**19**	**1.7**	**14.5**	**1.4**	**2.5**	**10.8**	**36.5**	**50.5**	**87.3**	**1.5**	**2.2**	**23.8**
23	Apparel and other textile products	–	8	8	0.7	4.0	0.6	1.1	3.7	8.7	4.9	13.7	0.2	1.1	7.8
	Punxsutawney	–	**26**	**12**	**1.7**	**12.6**	**1.5**	**2.9**	**10.7**	**23.1**	**28.4**	**51.7**	**(D)**	**1.1**	**11.8**
	Quakertown	–	**64**	**23**	**2.0**	**21.0**	**1.6**	**3.1**	**15.0**	**44.2**	**39.9**	**83.1**	**1.1**	**3.1**	**41.4**
23	Apparel and other textile products	–	6	4	0.6	5.0	0.5	1.0	4.2	7.8	3.1	10.7	(D)	1.4	12.7
	Reading	–	**226**	**92**	**17.5**	**247.6**	**12.6**	**24.5**	**162.8**	**549.7**	**607.4**	**1 146.7**	**29.4**	**24.2**	**487.4**
20	Food and kindred products	–	28	12	1.9	20.4	1.3	2.6	12.3	49.8	54.8	104.3	2.4	2.5	39.4
206	Sugar and confectionery products	–	10	5	1.2	11.0	0.9	1.8	7.7	26.6	23.8	50.3	1.0	(NA)	(NA)
2065	Confectionery products	–	10	5	1.2	11.0	0.9	1.8	7.7	26.6	23.8	50.3	1.0	(NA)	(NA)
22	Textile mill products	–	15	5	0.7	6.8	0.6	1.1	4.7	13.4	14.5	27.8	0.4	1.1	12.7
23	Apparel and other textile products	–	23	13	1.5	11.7	1.3	2.3	8.9	16.9	7.8	25.8	0.1	2.3	21.8
233	Women's and misses' outerwear	–	11	8	0.8	5.3	0.7	1.1	4.2	7.2	3.0	10.4	0.1	(NA)	(NA)
26	Paper and allied products	–	8	6	0.8	12.7	0.7	1.4	9.1	22.8	28.8	51.4	0.5	0.9	16.4
27	Printing and publishing	–	19	4	0.8	10.7	0.6	1.2	7.9	17.1	6.7	23.9	0.4	0.8	13.6
28	Chemicals and allied products	–	11	3	0.9	11.9	0.5	0.8	5.0	49.3	57.4	106.4	2.7	1.1	44.9
30	Rubber and miscellaneous plastics products	–	7	6	1.0	13.0	0.7	1.4	7.4	29.9	21.1	50.3	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	–	7	6	1.0	13.0	0.7	1.4	7.4	29.9	21.1	50.3	(D)	(NA)	(NA)
34	Fabricated metal products	E1	23	10	0.7	7.7	0.6	1.1	5.8	11.6	16.3	29.8	1.1	1.2	14.4
35	Machinery, except electrical	–	28	7	1.4	18.6	1.1	2.1	13.2	39.3	22.8	60.8	1.6	(NA)	(NA)
	Red Lion	–	**44**	**12**	**1.6**	**17.6**	**1.2**	**2.4**	**12.0**	**34.7**	**52.5**	**87.9**	**3.3**	**1.8**	**20.2**
34	Fabricated metal products	–	5	4	0.7	8.8	0.5	1.0	6.4	16.7	29.4	46.3	(D)	(NA)	(NA)
	Ridgway	–	**19**	**10**	**1.2**	**13.0**	**0.9**	**1.8**	**9.3**	**26.7**	**27.2**	**54.4**	**1.5**	**1.0**	**13.4**
	Roaring Spring	–	6	6	**0.9**	**12.9**	**0.7**	**1.4**	**9.2**	**30.5**	**32.3**	**58.9**	**(D)**	**(D)**	**(D)**

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Rochester	-	16	5	0.6	7.4	0.4	0.8	5.1	14.4	13.4	26.8	0.4	0.7	13.7
	Royersford	-	17	8	1.1	14.8	0.9	1.9	11.0	29.7	27.0	56.8	1.0	1.5	21.9
	St. Marys	-	32	12	5.2	65.3	3.9	7.4	44.2	121.9	84.5	200.2	8.8	5.7	108.4
	Schuylkill Haven	-	30	18	2.3	15.9	1.6	2.9	10.0	25.5	40.0	64.1	0.9	2.7	24.1
23	Apparel and other textile products	-	9	6	0.9	6.8	0.8	1.4	4.2	11.2	8.9	18.8	(D)	0.6	5.3
	Scottdale	-	25	8	1.2	12.5	0.8	1.5	7.3	20.0	22.2	42.4	1.0	1.1	12.4
	Scranton	-	221	103	10.9	103.0	8.7	15.6	71.2	168.2	168.3	331.9	8.3	14.0	139.9
20	Food and kindred products	E1	23	12	0.7	6.7	0.5	0.8	4.2	12.7	37.2	49.9	1.9	0.7	7.5
22	Textile mill products	-	7	6	0.9	7.8	0.8	1.4	6.0	9.3	14.0	23.5	(D)	(NA)	(NA)
23	Apparel and other textile products	E1	63	42	3.2	21.8	2.9	4.8	18.2	38.4	17.1	55.1	0.6	4.3	34.3
232	Men's and boys' furnishings	E1	9	7	0.8	5.9	0.8	1.2	5.1	9.1	5.3	14.2	0.1	(NA)	(NA)
233	Women's and misses' outerwear	E1	34	24	1.5	8.7	1.4	2.1	7.4	18.0	5.4	23.0	0.3	(NA)	(NA)
27	Printing and publishing	-	34	9	1.6	18.6	1.1	2.2	12.2	32.2	11.2	42.8	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	6	5	0.7	8.1	0.5	1.1	5.7	12.0	25.6	37.6	1.7	(NA)	(NA)
3079	Miscellaneous plastics products	E1	6	5	0.7	8.1	0.5	1.1	5.7	12.0	25.6	37.6	1.7	(NA)	(NA)
34	Fabricated metal products	-	19	8	1.7	19.5	1.3	2.4	12.9	34.4	31.4	64.7	(D)	2.3	16.0
344	Fabricated structural metal products	E1	10	4	0.6	7.3	0.5	0.9	4.8	11.9	7.6	19.5	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	10	5	0.7	5.5	0.6	1.1	4.4	9.5	8.0	17.3	(D)	0.7	8.3
	Selinsgrove	-	18	12	0.8	5.6	0.7	1.1	4.3	9.2	14.0	23.3	0.5	0.8	9.9
	Sellersville	-	20	8	2.2	29.3	1.7	3.8	21.5	54.1	27.2	80.0	1.8	1.8	32.3
	Shaler twp	-	32	10	1.1	15.0	0.9	1.7	10.0	29.4	24.7	54.2	3.0	1.3	16.6
	Shamokin	-	20	11	1.2	7.6	1.0	1.3	5.4	10.7	4.4	15.0	0.4	2.7	23.1
23	Apparel and other textile products	-	7	6	0.7	3.9	0.6	0.8	3.2	4.2	1.0	5.2	(Z)	2.0	15.4
2335	Women's and misses' dresses	E1	5	4	0.5	2.8	0.5	0.6	2.2	2.9	0.9	3.8	(Z)	(NA)	(NA)
	Sharon	-	30	14	5.0	79.0	3.6	6.6	52.9	150.0	118.3	268.1	8.6	6.4	105.2
	Shenandoah	-	23	13	0.9	6.0	0.8	1.3	4.7	9.5	3.3	12.8	0.3	1.1	7.1
23	Apparel and other textile products	E1	12	10	0.7	3.9	0.7	1.1	3.4	5.5	0.9	6.4	0.1	0.9	4.6
233	Women's and misses' outerwear	E1	12	10	0.7	3.9	0.7	1.1	3.4	5.5	0.9	6.4	0.1	(NA)	(NA)
	Shippensburg	-	16	13	2.0	18.8	1.6	3.0	14.0	39.2	36.4	74.0	1.8	2.2	28.6
23	Apparel and other textile products	-	5	5	0.6	4.1	0.6	1.1	3.9	6.8	3.4	10.2	0.1	0.8	4.9
35	Machinery, except electrical	-	3	3	0.6	7.9	0.4	0.9	5.3	18.2	22.4	39.4	(D)	(NA)	(NA)
	Sinking Spring	-	12	6	0.9	9.1	0.8	1.6	6.9	15.6	17.1	32.7	1.4	1.2	17.8
	Slatington	-	13	8	0.9	8.0	0.8	1.4	6.0	12.2	12.0	23.9	0.5	0.9	9.9
	Somerset	-	17	9	1.1	9.0	0.9	1.9	7.1	26.3	40.0	65.4	1.0	1.1	15.9
	Souderton	-	21	10	1.0	10.3	0.9	1.5	7.6	20.4	10.1	30.5	0.4	1.2	28.0
	South Greensburg	-	8	5	2.0	28.0	1.5	2.8	19.5	47.7	41.9	90.2	3.3	(D)	(D)
	Spring City	-	17	8	1.7	14.5	1.4	2.5	11.4	33.3	56.5	88.1	1.4	1.9	14.5
	Springdale	-	9	5	0.5	6.4	0.4	0.8	3.7	24.2	31.8	55.2	3.5	1.0	11.1
	Springettsbury twp	-	23	15	7.7	122.2	5.9	11.6	85.7	304.8	262.8	568.3	23.3	1.9	26.2
	Springfield twp	-	39	10	0.6	7.7	0.4	0.7	3.7	13.5	13.7	27.7	0.6	0.7	12.5
	Spring Garden twp	-	26	17	1.8	20.4	1.4	2.6	13.1	46.3	55.6	100.2	1.5	1.5	26.9
	State College	-	34	13	1.2	14.0	0.8	1.5	8.3	38.0	21.4	57.9	1.8	1.6	43.8
	Stowe twp	-	12	9	1.1	16.2	0.7	1.3	8.9	40.8	48.7	86.7	2.9	1.1	20.3
	Stroudsburg	-	30	12	0.7	7.5	0.6	1.0	5.4	15.0	9.8	24.8	0.5	(D)	(D)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Sunbury	-	36	16	2.1	21.5	1.4	2.8	12.8	39.4	52.2	91.6	1.7	2.3	29.8
	Swatara twp	-	29	12	3.7	65.6	0.6	1.2	5.7	23.2	25.5	47.1	1.2	(D)	(D)
	Swoyersville	-	19	12	1.1	9.2	1.0	1.7	7.8	16.4	14.3	30.2	0.2	0.8	7.3
23	Apparel and other textile products	-	9	6	0.8	6.6	0.8	1.3	6.0	11.7	5.4	16.7	0.1	0.7	4.8
	Tamaqua	-	26	13	2.5	24.8	1.9	3.4	16.7	57.4	50.9	107.7	4.3	2.1	24.9
23	Apparel and other textile products	-	7	5	0.5	2.1	0.4	0.7	1.9	2.8	0.5	3.3	(Z)	0.5	2.2
	Tarentum	-	20	6	0.6	7.1	0.4	0.8	4.4	14.7	11.0	25.7	0.6	(NA)	(NA)
	Taylor	-	12	8	0.7	7.4	0.6	1.1	5.5	9.8	13.3	23.3	0.1	0.6	6.5
23	Apparel and other textile products	-	5	4	0.5	5.0	0.4	0.8	3.9	5.2	4.9	10.1	(D)	(NA)	(NA)
	Telford	-	30	10	0.9	7.4	0.8	1.3	5.5	16.3	11.6	27.4	0.5	0.7	8.0
	Titusville	-	21	12	1.5	22.8	1.3	2.5	18.3	46.3	91.5	135.3	1.7	2.0	36.5
	Tredyffrin twp	-	29	12	2.7	39.3	1.4	2.4	14.6	77.8	53.0	126.2	(D)	3.8	27.7
	Tyrone	-	16	5	0.9	9.0	0.8	1.4	7.8	20.8	33.5	53.1	0.7	1.3	22.1
	Union City	-	18	9	1.2	10.9	0.9	1.7	7.2	21.8	35.8	55.8	2.2	1.1	9.9
	Uniontown	-	38	12	2.1	24.1	1.5	2.8	15.4	57.4	53.4	110.9	2.2	2.1	38.7
	Upper Darby twp	-	59	11	1.3	14.0	0.9	1.7	8.3	27.8	21.5	49.3	2.0	0.9	14.2
	Upper Dublin twp	-	41	24	10.2	162.5	4.3	8.5	56.9	450.7	213.5	653.9	12.6	6.2	142.6
--	Administrative and auxiliary	-	6	4	0.9	12.3	-	-	-	-	-	-	-	(NA)	(NA)
	Upper Merion twp	-	67	31	8.6	158.0	3.6	7.1	51.6	234.4	233.4	477.4	17.3	5.3	105.1
35	Machinery, except electrical	-	15	8	1.9	32.5	1.3	2.9	21.5	72.8	36.5	107.3	4.4	1.7	33.4
--	Administrative and auxiliary	-	11	9	1.0	18.1	-	-	-	-	-	-	-	(NA)	(NA)
	Upper Moreland twp	-	63	30	2.6	29.1	1.9	3.5	17.3	63.5	54.0	115.7	5.1	2.3	33.1
	Upper Southampton twp	-	56	25	1.5	18.0	1.2	2.3	12.1	35.0	34.2	68.7	2.3	1.6	22.5
	Vandergrift	-	11	4	1.3	20.9	1.0	1.8	15.7	24.5	6.4	30.4	2.0	(D)	(D)
	Verona	-	17	9	1.0	12.4	0.6	1.2	7.3	21.0	25.4	45.8	0.9	1.1	15.4
	Warminster twp	-	59	22	5.6	77.8	3.7	8.0	42.8	149.8	102.7	250.6	6.3	4.5	78.1
35	Machinery, except electrical	-	17	4	1.1	16.3	0.8	1.6	10.2	35.0	25.8	59.9	1.2	(NA)	(NA)
36	Electric and electronic equipment	-	5	4	0.8	8.0	0.6	1.1	5.3	22.2	11.4	33.3	1.1	(NA)	(NA)
	Warren	-	53	26	4.0	50.2	2.8	5.7	31.6	115.6	381.0	487.4	7.4	3.4	64.9
344	Fabricated structural metal products	-	5	4	0.9	12.9	0.6	1.2	8.2	22.7	24.4	45.9	0.9	(NA)	(NA)
	Washington	-	55	25	4.1	56.5	3.3	6.1	42.5	128.6	193.0	318.5	5.2	5.0	85.5
	Watsontown	-	9	6	1.9	17.2	1.8	2.9	15.5	33.7	56.1	86.2	2.3	1.2	12.9
	Waynesboro	-	33	17	3.8	43.7	2.7	5.6	28.4	78.9	51.0	127.2	3.5	3.4	43.5
23	Apparel and other textile products	E2	4	4	0.5	4.7	0.5	0.8	4.2	11.7	5.1	15.3	0.2	(NA)	(NA)
35	Machinery, except electrical	-	11	6	2.2	30.2	1.3	3.1	17.1	52.8	29.6	81.4	2.8	2.3	35.2
	Wellsboro	-	11	4	0.8	9.3	0.6	1.1	6.2	25.7	40.5	66.8	0.9	0.8	23.0
	West Chester	-	45	12	1.8	21.8	1.2	2.7	12.2	48.2	53.0	100.9	2.3	2.5	60.1
	West Goshen twp	-	35	16	3.3	38.5	2.5	4.7	26.3	87.8	94.0	180.9	9.0	1.5	23.1
	West Hazleton	-	17	14	3.2	33.9	2.5	4.9	25.5	86.0	130.4	215.3	4.8	3.3	51.2
	West Manchester twp	-	31	14	3.4	45.3	2.7	5.4	35.1	147.9	146.3	256.2	7.6	1.7	37.2
	West Mifflin	-	17	9	3.5	80.9	2.5	5.6	57.3	132.2	154.0	283.5	4.2	(D)	(D)
	West Norriton twp	-	15	4	1.1	15.5	0.7	1.3	6.5	37.9	21.2	58.7	0.5	(NA)	(NA)
	West Pittston	-	23	8	0.6	6.7	0.5	1.0	4.7	12.5	8.8	21.5	0.5	1.6	23.6
	West Reading	-	15	8	1.4	11.3	1.2	2.3	8.8	28.3	24.3	51.6	1.2	1.0	14.0
	West York	-	10	7	1.4	15.7	1.1	2.2	11.7	27.4	19.0	46.2	0.6	0.8	11.2

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Whitehall	-	**21**	**9**	**1.7**	**20.3**	**1.3**	**2.6**	**15.3**	**46.3**	**52.2**	**95.5**	**3.8**	**0.8**	**10.8**
	Whitemarsh	-	**29**	**10**	**1.3**	**20.7**	**0.8**	**1.6**	**8.0**	**32.6**	**33.2**	**65.9**	**1.9**	**7.6**	**100.0**
	Wilkes-Barre	-	**141**	**75**	**8.3**	**73.4**	**6.4**	**10.9**	**48.3**	**124.4**	**103.5**	**226.0**	**12.7**	**10.7**	**123.5**
20	Food and kindred products	-	18	8	0.6	6.2	0.4	0.7	4.0	11.9	13.5	25.4	(D)	0.7	11.4
23	Apparel and other textile products	E6	35	29	2.5	18.4	2.2	3.6	13.5	25.6	20.9	48.7	0.4	(NA)	(NA)
233	Women's and misses' outerwear	E7	27	24	2.2	16.2	1.9	3.1	11.8	23.4	16.9	42.1	0.3	(NA)	(NA)
27	Printing and publishing	-	18	4	0.5	7.8	0.3	0.6	4.5	12.0	3.7	15.7	0.2	0.9	12.5
30	Rubber and miscellaneous plastics products	E6	5	3	0.8	5.8	0.7	1.2	4.6	8.8	8.5	17.2	(D)	(NA)	(NA)
31	Leather and leather products	-	4	4	0.8	5.6	0.7	1.1	4.2	8.0	7.2	14.7	(D)	1.5	12.0
314	Footwear, except rubber	-	4	4	0.8	5.6	0.7	1.1	4.2	8.0	7.2	14.7	(D)	(NA)	(NA)
34	Fabricated metal products	-	10	4	0.6	8.0	0.4	0.7	4.4	19.9	14.9	34.6	0.3	0.5	10.4
	Williamsport	-	**92**	**49**	**9.7**	**114.5**	**7.3**	**13.6**	**78.2**	**310.5**	**279.8**	**577.8**	**12.0**	**10.0**	**163.9**
20	Food and kindred products	-	12	8	0.9	8.9	0.7	1.2	6.4	46.2	44.6	91.4	0.9	0.8	29.2
	Wilson	-	**12**	**11**	**2.7**	**36.0**	**2.1**	**4.0**	**26.3**	**71.4**	**43.3**	**113.2**	**1.6**	**0.6**	**13.2**
	Wrightsville	-	**16**	**5**	**0.9**	**8.6**	**0.7**	**1.2**	**6.3**	**8.5**	**9.4**	**22.1**	**(D)**	**0.9**	**14.2**
	Wyomissing	-	**14**	**9**	**2.0**	**23.8**	**1.4**	**2.7**	**13.9**	**29.7**	**28.4**	**59.5**	**1.3**	**(NA)**	**(NA)**
	York City	-	**163**	**89**	**18.3**	**237.0**	**12.8**	**24.7**	**131.1**	**383.9**	**437.4**	**807.1**	**17.6**	**22.7**	**367.8**
20	Food and kindred products	-	18	10	0.6	7.1	0.4	0.9	4.4	23.3	53.5	76.8	1.2	0.9	20.3
22	Textile mill products	E6	7	5	2.6	20.1	2.4	4.6	17.5	44.4	29.0	72.3	1.0	2.7	30.9
23	Apparel and other textile products	-	16	13	1.4	7.8	1.3	2.1	6.6	11.5	10.2	20.2	0.1	2.0	8.7
2335	Women's and misses' dresses	-	4	4	0.5	2.6	0.5	0.7	2.4	2.7	0.4	3.0	(D)	(NA)	(NA)
26	Paper and allied products	-	5	4	0.5	7.3	0.4	0.9	5.9	16.6	21.6	37.8	0.8	0.7	12.8
27	Printing and publishing	-	20	6	0.5	6.1	0.4	0.7	4.4	8.9	3.6	12.4	0.2	1.3	22.2
34	Fabricated metal products	-	17	7	0.6	7.3	0.5	1.1	5.4	17.0	17.5	33.7	1.3	0.9	13.2
35	Machinery, except electrical	-	32	19	6.8	117.4	4.2	8.2	54.6	158.0	189.0	340.0	8.1	7.9	154.5
353	Construction and related machinery	-	5	5	0.8	9.4	0.5	1.0	5.7	24.3	26.1	50.3	(D)	(NA)	(NA)
	Youngwood	-	**11**	**9**	**1.2**	**16.1**	**0.9**	**1.7**	**9.7**	**27.7**	**32.1**	**60.9**	**0.9**	**1.2**	**24.8**
	Zelienople	-	**31**	**17**	**1.6**	**23.2**	**1.1**	**2.2**	**13.6**	**44.5**	**74.6**	**120.8**	**(D)**	**1.5**	**26.8**

Note: "Place" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
PENNSYLVANIA	18735	1579	30	536	1979	1324	454	398	2190	594	167	570	161	978	598	1940	2497	776	341	410	667	546
1 TO 4 EMPLOYEES	6156	550	6	99	318	699	135	62	1097	192	46	136	34	305	112	544	951	231	106	139	318	76
5 TO 9 EMPLOYEES	2309	209	3	38	124	193	57	20	288	73	44	73	9	151	54	265	376	74	48	53	92	65
10 TO 19 EMPLOYEES	2566	197	2	68	167	188	76	50	295	88	25	86	11	156	77	293	438	89	33	64	84	79
20 TO 49 EMPLOYEES	3153	268	9	115	542	148	83	94	243	110	24	113	23	169	93	386	355	105	38	58	82	95
50 TO 99 EMPLOYEES	1941	131	3	83	474	54	46	59	127	50	11	65	26	75	78	201	166	81	43	36	46	86
100 TO 249 EMPLOYEES	1560	147	2	87	266	39	42	78	86	42	6	62	31	69	74	163	114	100	29	28	23	72
250 TO 499 EMPLOYEES	615	46	3	32	74	2	11	22	34	21	6	25	23	29	49	60	46	55	16	15	12	34
500 TO 999 EMPLOYEES	261	24	2	11	10	1	4	8	16	10	3	5	4	19	28	22	30	19	10	9	7	19
1000 TO 2499 EMPLOYEES	122	6	-	3	4	-	-	5	2	7	2	4	-	5	14	5	14	16	12	6	2	15
2500 EMPLOYEES AND OVER	52	1	-	-	-	-	-	-	2	1	-	1	-	-	19	1	7	6	6	2	1	5
ADAMS COUNTY	129	21	2	1	15	16	5	5	11	2	-	3	5	5	3	4	12	7	3	-	1	8
1 TO 19 EMPLOYEES	72	13	1	1	6	11	2	1	6	2	-	-	-	2	-	3	10	4	3	-	1	6
20 TO 99 EMPLOYEES	34	2	1	-	8	4	1	1	2	-	-	2	2	3	2	1	1	2	-	-	-	2
100 TO 249 EMPLOYEES	18	4	-	-	1	1	2	2	3	-	-	1	2	-	1	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	5	2	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	-	-	-	-	-
ALLEGHENY COUNTY	1736	121	1	9	47	58	42	25	267	80	19	44	7	115	73	249	241	80	15	52	87	104
1 TO 19 EMPLOYEES	1150	73	1	5	32	49	30	9	210	51	14	31	4	81	34	149	179	47	6	36	73	36
20 TO 99 EMPLOYEES	385	28	-	4	13	7	9	10	48	18	5	9	3	25	16	66	41	24	7	12	10	30
100 TO 249 EMPLOYEES	99	12	-	-	2	2	2	4	6	5	-	3	-	7	3	20	9	5	-	2	4	13
250 EMPLOYEES AND OVER	102	8	-	-	-	-	1	2	3	6	-	1	-	2	20	14	12	4	2	2	-	25
ARMSTRONG COUNTY	79	6	-	-	2	8	1	-	7	5	-	-	-	15	2	9	16	5	1	1	1	-
1 TO 19 EMPLOYEES	45	4	-	-	-	6	1	-	6	1	-	-	-	2	1	6	12	3	1	1	1	-
20 TO 99 EMPLOYEES	22	1	-	-	1	2	-	-	1	2	-	-	-	9	1	2	3	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	1	1	-	-	-	-
250 EMPLOYEES AND OVER	7	1	-	-	1	-	-	-	-	1	-	-	-	3	-	-	-	1	-	-	-	-
BEAVER COUNTY	186	21	-	-	2	8	-	2	14	8	5	8	-	23	24	24	24	2	7	1	4	9
1 TO 19 EMPLOYEES	109	16	-	-	1	8	-	1	11	5	3	5	-	14	5	10	16	1	5	1	3	4
20 TO 99 EMPLOYEES	45	4	-	-	1	-	-	1	1	2	1	2	-	3	7	9	7	-	2	-	1	4
100 TO 249 EMPLOYEES	17	1	-	-	-	-	-	-	1	-	1	1	-	3	6	2	1	-	-	-	-	1
250 EMPLOYEES AND OVER	15	-	-	-	-	-	-	-	1	1	-	-	-	3	6	3	-	1	-	-	-	-
BEOFORO COUNTY	50	5	-	1	3	22	1	1	5	1	-	2	1	2	-	3	1	-	1	-	1	-
1 TO 19 EMPLOYEES	32	4	-	1	1	17	1	-	3	1	-	1	-	2	-	-	-	-	1	-	-	-
20 TO 99 EMPLOYEES	13	1	-	-	-	5	-	1	1	-	-	1	1	-	-	3	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-
BERKS COUNTY	667	76	-	52	67	31	16	14	46	25	12	14	7	28	39	65	84	29	17	3	23	19
1 TO 19 EMPLOYEES	358	41	-	21	18	22	6	4	39	19	11	3	1	21	9	40	63	13	8	-	16	3
20 TO 99 EMPLOYEES	192	25	-	17	36	7	7	5	6	2	1	7	1	4	14	18	16	3	5	1	5	12
100 TO 249 EMPLOYEES	65	6	-	8	11	1	3	3	-	2	-	2	2	2	9	5	2	6	1	-	-	2
250 EMPLOYEES AND OVER	52	4	-	6	2	1	-	2	1	2	-	2	3	1	7	2	3	7	3	2	2	2
BLAIR COUNTY	147	30	-	3	10	13	1	5	23	5	2	2	3	12	4	9	7	5	4	2	6	1
1 TO 19 EMPLOYEES	84	13	-	1	4	12	1	-	19	5	1	2	1	6	2	5	4	1	2	1	3	1
20 TO 99 EMPLOYEES	35	13	-	-	3	1	-	1	2	-	1	-	-	4	-	3	-	2	2	-	3	-
100 TO 249 EMPLOYEES	12	4	-	1	-	-	-	2	-	-	-	-	2	1	1	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	16	-	-	1	3	-	-	2	2	-	-	-	-	1	1	1	2	2	-	1	-	-
BRAOFORO COUNTY	79	10	-	2	5	19	-	3	10	2	-	1	-	3	3	6	9	-	-	2	3	1
1 TO 19 EMPLOYEES	48	6	-	1	1	17	-	-	6	1	-	-	-	2	2	1	8	-	-	1	1	1
20 TO 99 EMPLOYEES	20	2	-	1	3	1	-	1	3	-	-	-	-	1	1	5	-	-	-	-	2	-
100 TO 249 EMPLOYEES	6	2	-	-	-	-	-	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-	1	-	-	1	-	-
BUCKS COUNTY	1046	46	-	24	31	40	29	37	94	39	7	60	8	52	31	123	233	76	20	43	39	14
1 TO 19 EMPLOYEES	658	24	-	9	12	31	18	13	68	24	3	31	4	32	23	72	179	43	13	27	26	6
20 TO 99 EMPLOYEES	301	18	-	12	11	9	10	13	22	10	4	22	3	16	6	41	45	25	5	13	11	5
100 TO 249 EMPLOYEES	64	3	-	3	7	-	1	9	3	3	-	6	-	3	1	7	8	4	1	1	2	2
250 EMPLOYEES AND OVER	23	1	-	-	1	-	-	2	1	2	-	1	1	1	1	3	1	4	1	2	-	1
BUTLER COUNTY	200	15	-	-	3	15	4	1	13	12	5	6	1	30	9	24	37	6	4	3	3	9
1 TO 19 EMPLOYEES	115	12	-	-	2	14	1	-	9	5	3	2	1	18	2	13	19	5	3	-	2	4
20 TO 99 EMPLOYEES	60	3	-	-	-	1	3	-	4	5	-	3	-	7	4	9	14	-	-	2	1	4
100 TO 249 EMPLOYEES	15	-	-	-	-	-	-	1	-	1	-	-	-	5	-	2	4	-	-	1	-	1
250 EMPLOYEES AND OVER	10	-	-	-	1	-	-	-	-	1	2	1	-	-	3	-	-	1	1	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
CAMBRIA COUNTY	169	21	-	-	19	30	2	2	18	2	2	2	1	16	3	16	14	2	6	3	9	1
1 TO 19 EMPLOYEES	108	11	-	-	3	29	1	2	14	1	2	1	1	9	-	9	11	2	3	2	6	1
20 TO 99 EMPLOYEES	42	8	-	-	8	1	1	-	3	1	-	1	-	7	-	7	1	-	2	-	2	-
100 TO 249 EMPLOYEES	14	2	-	-	7	-	-	-	-	-	-	-	-	-	1	-	2	-	-	1	1	-
250 EMPLOYEES AND OVER	5	-	-	-	1	-	-	-	1	-	-	-	-	-	2	-	-	-	1	-	-	-
CAMERON COUNTY	23	1	-	-	-	7	-	-	1	-	-	-	-	-	1	2	5	2	3	-	-	1
1 TO 19 EMPLOYEES	16	1	-	-	-	5	-	-	1	-	-	-	-	-	1	1	3	1	2	-	-	1
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
CARBON COUNTY	113	10	-	6	48	3	5	1	5	3	-	1	-	6	8	4	5	5	1	-	2	-
1 TO 19 EMPLOYEES	60	9	-	5	11	3	5	1	4	2	-	-	-	5	2	4	5	2	1	-	1	-
20 TO 99 EMPLOYEES	36	1	-	1	26	-	-	-	1	-	-	-	-	1	3	-	-	2	-	-	1	-
100 TO 249 EMPLOYEES	10	-	-	-	7	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	4	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-
CENTRE COUNTY	109	5	1	-	5	16	1	-	20	7	3	1	-	8	1	1	14	11	1	11	3	-
1 TO 19 EMPLOYEES	68	2	-	-	-	13	1	-	14	4	3	1	-	1	-	1	12	5	1	7	3	-
20 TO 99 EMPLOYEES	20	2	-	-	2	2	-	-	5	3	-	-	-	2	-	-	1	1	-	2	-	-
100 TO 249 EMPLOYEES	15	1	-	-	3	1	-	-	-	-	-	-	-	4	-	-	1	3	-	2	-	-
250 EMPLOYEES AND OVER	6	-	1	-	-	-	-	-	1	-	-	-	-	1	1	-	-	2	-	-	-	-
CHESTER COUNTY	511	39	-	11	19	19	9	19	56	29	5	19	1	27	18	59	78	37	10	13	16	27
1 TO 19 EMPLOYEES	296	21	-	4	9	18	6	6	44	14	2	4	1	18	4	35	53	23	6	6	11	11
20 TO 99 EMPLOYEES	140	9	-	4	8	1	2	10	4	11	3	9	-	7	8	20	17	9	1	5	5	7
100 TO 249 EMPLOYEES	40	5	-	2	2	-	1	2	3	2	-	2	-	2	1	3	4	3	1	1	-	6
250 EMPLOYEES AND OVER	35	4	-	1	-	-	-	1	5	2	-	4	-	-	5	1	4	2	2	1	-	3
CLARION COUNTY	55	4	-	-	2	20	2	1	5	-	1	3	-	7	-	3	3	1	1	1	1	-
1 TO 19 EMPLOYEES	38	2	-	-	1	15	1	-	5	-	1	2	-	4	-	1	3	-	1	1	1	-
20 TO 99 EMPLOYEES	11	2	-	-	-	3	-	1	-	-	-	1	-	1	-	2	-	1	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
CLEARFIELD COUNTY	134	10	-	-	15	42	1	1	8	-	2	-	2	17	3	12	11	4	-	1	4	1
1 TO 19 EMPLOYEES	83	7	-	-	2	37	1	-	5	-	2	-	-	9	2	7	6	1	-	-	3	1
20 TO 99 EMPLOYEES	30	2	-	-	6	5	-	-	2	-	-	-	1	6	1	3	4	-	-	-	-	-
100 TO 249 EMPLOYEES	13	-	-	-	5	-	-	1	1	-	-	-	1	-	-	2	1	1	-	-	1	-
250 EMPLOYEES AND OVER	8	1	-	-	2	-	-	-	-	-	-	-	-	2	-	-	-	2	-	1	-	-
CLINTON COUNTY	50	4	-	3	2	16	2	2	4	4	2	1	-	4	1	-	1	-	2	1	1	-
1 TO 19 EMPLOYEES	28	3	-	-	-	12	1	-	3	1	2	1	-	2	-	-	1	-	-	1	1	-
20 TO 99 EMPLOYEES	11	1	-	-	1	3	1	-	1	2	-	-	-	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	1	1	1	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	2	-	-	-
COLUMBIA COUNTY	128	20	1	16	20	15	4	2	9	-	1	3	-	6	2	10	7	2	1	1	4	4
1 TO 19 EMPLOYEES	66	16	-	3	4	10	4	1	6	-	1	-	-	6	-	4	5	1	-	-	3	2
20 TO 99 EMPLOYEES	39	-	-	8	13	3	-	1	1	-	-	3	-	-	2	2	2	-	-	1	1	2
100 TO 249 EMPLOYEES	17	3	-	3	3	2	-	-	2	-	-	-	-	-	-	3	-	1	-	-	-	-
250 EMPLOYEES AND OVER	6	1	1	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
CRAWFORD COUNTY	188	16	-	1	1	29	1	1	9	4	1	11	1	10	7	18	65	8	2	-	3	-
1 TO 19 EMPLOYEES	119	12	-	-	1	22	-	1	7	1	-	6	1	7	4	7	47	1	2	-	-	-
20 TO 99 EMPLOYEES	45	4	-	1	-	7	1	-	2	-	1	1	-	2	-	6	16	4	-	-	-	-
100 TO 249 EMPLOYEES	15	-	-	-	-	-	-	-	-	1	-	4	-	-	-	4	2	3	-	-	1	-
250 EMPLOYEES AND OVER	9	-	-	-	-	-	-	-	-	2	-	-	-	1	3	1	-	-	-	-	2	-
CUMBERLAND COUNTY	187	20	-	6	16	6	1	8	34	3	-	4	2	13	3	10	23	16	3	2	4	13
1 TO 19 EMPLOYEES	105	7	-	3	5	6	-	2	27	3	-	1	-	10	1	4	17	5	2	2	3	7
20 TO 99 EMPLOYEES	47	10	-	1	9	-	1	2	6	-	-	1	-	1	-	4	3	4	-	-	1	4
100 TO 249 EMPLOYEES	20	2	-	-	2	-	-	3	-	-	-	1	1	1	-	2	3	3	1	-	-	1
250 EMPLOYEES AND OVER	15	1	-	2	-	-	-	1	1	-	-	1	1	1	2	-	-	4	-	-	-	1
DAUPHIN COUNTY	270	33	-	1	29	12	7	1	58	3	2	3	7	6	2	28	34	10	6	4	11	13
1 TO 19 EMPLOYEES	160	13	-	-	5	10	5	1	48	2	2	3	1	6	1	18	20	6	1	4	9	5
20 TO 99 EMPLOYEES	69	13	-	-	17	2	2	-	8	1	-	-	3	-	-	7	9	-	2	-	2	3
100 TO 249 EMPLOYEES	21	4	-	1	7	-	-	-	1	-	-	-	-	-	-	2	3	2	1	-	-	-
250 EMPLOYEES AND OVER	20	3	-	-	-	-	-	-	1	-	-	-	3	-	1	1	2	2	2	-	-	5

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
DELAWARE COUNTY	559	26	-	7	25	5	17	12	110	28	4	26	1	23	15	63	98	21	12	19	23	24
1 TO 19 EMPLOYEES	372	13	-	4	17	3	14	4	89	19	2	18	-	16	7	39	70	12	8	15	15	7
20 TO 99 EMPLOYEES	133	7	-	3	6	2	2	2	16	5	-	6	1	7	4	21	26	5	2	2	6	10
100 TO 249 EMPLOYEES	33	5	-	-	1	-	-	4	3	4	-	2	-	-	4	2	1	3	-	1	-	3
250 EMPLOYEES AND OVER	21	1	-	-	1	-	1	2	2	-	2	-	-	-	-	1	1	1	2	1	2	4
ELK COUNTY	87	4	-	-	-	21	-	2	5	3	-	2	1	4	3	9	26	7	-	-	-	-
1 TO 19 EMPLOYEES	55	1	-	-	-	18	-	-	3	2	-	2	-	3	1	5	20	-	-	-	-	-
20 TO 99 EMPLOYEES	16	3	-	-	-	3	-	1	2	-	-	-	1	-	1	1	4	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	1	-	-	-	-	1	2	-	1	-	-	-	-
250 EMPLOYEES AND OVER	11	-	-	-	-	-	-	1	-	-	-	-	-	1	-	1	2	6	-	-	-	-
ERIE COUNTY	510	32	-	-	7	22	14	3	43	11	4	42	1	16	26	88	121	25	18	11	17	9
1 TO 19 EMPLOYEES	301	18	-	-	4	17	4	-	35	7	3	15	-	13	8	47	87	11	11	5	12	4
20 TO 99 EMPLOYEES	123	8	-	-	3	4	3	-	7	4	-	17	1	3	9	22	21	6	4	3	4	4
100 TO 249 EMPLOYEES	53	4	-	-	-	1	5	2	-	-	1	8	-	-	4	14	8	3	1	-	1	1
250 EMPLOYEES AND OVER	33	2	-	-	-	-	2	1	1	-	-	2	-	-	5	5	5	5	2	3	-	-
FAYETTE COUNTY	143	11	-	1	10	34	2	-	16	5	2	-	-	10	8	13	18	2	3	3	2	3
1 TO 19 EMPLOYEES	98	9	-	-	1	31	1	-	13	2	2	-	-	7	5	8	11	2	1	1	2	2
20 TO 99 EMPLOYEES	27	1	-	1	5	3	-	-	2	2	-	-	-	1	3	3	5	-	-	-	-	1
100 TO 249 EMPLOYEES	12	1	-	-	3	-	1	-	1	1	-	-	-	1	-	1	2	-	-	1	-	-
250 EMPLOYEES AND OVER	6	-	-	-	1	-	-	-	-	-	-	-	-	1	-	1	-	-	2	1	-	-
FOREST COUNTY	6	-	-	-	-	1	-	-	1	-	1	1	-	1	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
FRANKLIN COUNTY	156	16	-	1	13	31	3	2	16	-	1	1	4	13	2	13	30	4	3	1	1	1
1 TO 19 EMPLOYEES	87	7	-	-	-	24	2	-	12	-	1	-	-	9	2	8	17	2	1	1	1	-
20 TO 99 EMPLOYEES	43	6	-	-	8	5	1	1	3	-	-	1	1	2	-	5	6	2	1	-	-	1
100 TO 249 EMPLOYEES	15	3	-	-	3	2	-	-	-	-	-	-	2	2	-	-	2	-	1	-	-	-
250 EMPLOYEES AND OVER	11	-	-	1	2	-	-	1	1	-	-	-	1	-	-	-	5	-	-	-	-	-
FULTON COUNTY	19	1	-	-	-	9	1	-	3	-	1	-	-	-	-	1	2	-	-	-	1	-
1 TO 19 EMPLOYEES	18	1	-	-	-	9	1	-	3	-	1	-	-	-	-	1	1	-	-	-	1	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
GREENE COUNTY	33	6	-	-	3	9	-	-	4	-	-	-	-	3	-	1	4	-	1	1	-	1
1 TO 19 EMPLOYEES	24	5	-	-	1	8	-	-	3	-	-	-	-	2	-	-	4	-	-	1	-	-
20 TO 99 EMPLOYEES	8	1	-	-	1	1	-	-	1	-	-	-	-	1	-	1	-	-	1	-	-	1
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HUNTINGDON COUNTY	53	3	-	-	3	25	-	1	4	1	-	1	1	7	1	3	1	2	-	-	-	-
1 TO 19 EMPLOYEES	38	2	-	-	-	24	-	-	2	1	-	-	-	4	1	2	1	1	-	-	-	-
20 TO 99 EMPLOYEES	7	1	-	-	1	1	-	-	2	-	-	-	-	1	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	1	-	-	1	-	-	-	1	-	2	-	-	-	1	-	-	-	-
INDIANA COUNTY	84	5	-	-	2	11	1	-	11	1	1	3	1	7	1	10	18	3	2	3	1	3
1 TO 19 EMPLOYEES	56	5	-	-	1	10	-	-	9	1	1	1	-	5	-	4	14	-	1	1	1	2
20 TO 99 EMPLOYEES	14	-	-	-	1	1	-	-	1	-	-	1	1	2	-	2	3	2	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1	1	-	-	1
250 EMPLOYEES AND OVER	8	-	-	-	-	-	-	-	-	-	-	1	-	-	1	3	1	-	-	2	-	-
JEFFERSON COUNTY	99	8	-	-	4	29	-	-	8	1	1	1	1	8	1	9	15	4	4	-	1	4
1 TO 19 EMPLOYEES	60	8	-	-	-	29	-	-	6	-	1	-	-	2	1	3	8	-	1	-	-	1
20 TO 99 EMPLOYEES	24	-	-	-	2	-	-	-	2	1	-	-	-	2	-	6	6	3	1	-	1	-
100 TO 249 EMPLOYEES	6	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	1	-	2	-	-	1
250 EMPLOYEES AND OVER	9	-	-	-	1	-	-	-	-	-	-	1	1	3	-	-	-	1	-	-	-	2
JUNIATA COUNTY	52	6	-	-	8	26	-	-	6	-	-	-	-	2	-	-	-	-	2	-	1	1
1 TO 19 EMPLOYEES	38	5	-	-	-	24	-	-	6	-	-	-	-	1	-	-	-	-	1	-	1	-
20 TO 99 EMPLOYEES	8	-	-	-	4	1	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1
100 TO 249 EMPLOYEES	5	-	-	-	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LACKAWANNA COUNTY	499	45	2	12	163	27	7	8	53	11	-	17	3	11	8	39	28	19	8	6	19	13
1 TO 19 EMPLOYEES	241	23	1	3	48	18	5	4	41	6	-	8	1	9	6	21	20	6	2	4	12	3
20 TO 99 EMPLOYEES	200	19	1	4	102	7	2	2	9	4	-	7	-	2	2	10	6	6	4	-	6	7
100 TO 249 EMPLOYEES	37	3	-	2	12	2	-	-	-	1	-	1	1	-	-	4	2	5	1	-	1	2
250 EMPLOYEES AND OVER	21	-	-	3	1	-	-	2	3	-	-	1	1	-	-	4	-	2	1	2	-	1

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
LANCASTER COUNTY	770	104	6	17	59	50	18	12	103	18	6	25	19	27	30	72	104	20	21	11	31	17
1 TO 19 EMPLOYEES	430	65	1	5	9	33	10	3	70	12	4	16	7	16	13	31	77	8	11	4	26	9
20 TO 99 EMPLOYEES	220	26	4	6	32	12	4	9	26	4	2	5	7	8	9	26	19	5	6	3	3	4
100 TO 249 EMPLOYEES	72	9	1	3	13	5	3	-	3	-	-	3	2	1	5	9	4	2	3	3	1	2
250 EMPLOYEES AND OVER	48	4	-	3	5	-	1	-	4	2	-	1	3	2	3	6	4	5	1	1	1	2
LAWRENCE COUNTY	169	15	-	2	1	10	-	1	16	5	4	9	1	24	7	33	29	2	3	3	1	3
1 TO 19 EMPLOYEES	101	12	-	-	-	9	-	-	14	3	3	3	-	14	2	16	20	1	-	1	1	2
20 TO 99 EMPLOYEES	46	2	-	1	1	1	-	1	2	1	1	5	-	6	4	12	5	1	1	1	-	1
100 TO 249 EMPLOYEES	12	1	-	1	-	-	-	-	-	1	-	1	-	2	1	2	1	-	1	1	-	-
250 EMPLOYEES AND OVER	10	-	-	-	-	-	-	-	-	-	-	-	1	2	-	3	3	-	1	-	-	-
LEBANON COUNTY	195	27	-	9	39	13	1	4	19	4	3	5	6	1	8	16	30	-	2	1	4	3
1 TO 19 EMPLOYEES	89	17	-	2	7	7	1	1	11	1	3	3	1	1	4	4	18	-	-	1	4	3
20 TO 99 EMPLOYEES	75	7	-	3	26	6	-	2	6	-	-	2	1	-	1	9	11	-	1	-	-	-
100 TO 249 EMPLOYEES	17	2	-	4	4	-	-	-	2	2	-	-	2	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	14	1	-	-	2	-	-	1	-	1	-	-	2	-	3	2	1	-	1	-	-	-
LEHIGH COUNTY	489	34	-	47	122	6	16	7	50	14	3	8	1	21	11	42	42	17	5	7	17	19
1 TO 19 EMPLOYEES	244	18	-	15	39	5	8	1	40	7	3	3	-	13	5	27	27	8	3	3	12	7
20 TO 99 EMPLOYEES	161	7	-	22	64	1	7	3	6	6	-	4	-	7	5	6	11	1	-	3	3	5
100 TO 249 EMPLOYEES	44	3	-	7	14	-	1	2	1	1	-	1	1	1	-	5	1	3	-	-	-	3
250 EMPLOYEES AND OVER	40	6	-	3	5	-	-	1	3	-	-	-	-	-	1	4	3	5	2	1	2	4
LUZERNE COUNTY	670	63	4	26	222	34	19	16	48	10	2	20	11	30	12	40	48	10	14	7	21	13
1 TO 19 EMPLOYEES	312	42	1	6	53	25	11	5	39	9	1	10	2	19	6	23	28	2	7	5	14	4
20 TO 99 EMPLOYEES	269	16	1	11	148	8	6	9	6	-	-	1	4	7	4	10	16	4	5	2	4	7
100 TO 249 EMPLOYEES	51	4	-	6	17	1	1	1	1	1	1	5	3	-	2	4	1	2	1	-	-	-
250 EMPLOYEES AND OVER	38	1	2	3	4	-	1	1	2	-	-	4	2	4	-	3	3	2	1	-	3	2
LYCOMING COUNTY	202	23	-	9	12	35	7	7	24	5	1	5	3	9	3	18	17	4	6	1	6	7
1 TO 19 EMPLOYEES	107	9	-	2	2	28	2	2	21	3	1	3	-	6	-	5	12	-	3	-	4	4
20 TO 99 EMPLOYEES	50	8	-	4	6	5	3	3	1	1	-	-	1	3	1	8	3	-	-	-	1	2
100 TO 249 EMPLOYEES	30	6	-	2	2	2	2	1	1	1	-	1	1	-	1	1	1	2	2	-	1	-
250 EMPLOYEES AND OVER	15	-	-	1	2	-	-	1	1	-	-	1	1	-	1	1	1	2	2	-	1	-
MC KEAN COUNTY	94	5	-	-	2	27	2	2	11	2	4	-	1	11	1	6	7	5	-	-	6	2
1 TO 19 EMPLOYEES	55	5	-	-	1	22	-	-	8	2	1	-	1	4	-	2	6	-	-	-	1	2
20 TO 99 EMPLOYEES	25	-	-	-	1	4	1	1	3	-	1	-	-	5	1	2	1	1	-	-	4	-
100 TO 249 EMPLOYEES	6	-	-	-	-	1	-	1	-	-	1	-	-	1	-	-	-	2	-	-	-	-
250 EMPLOYEES AND OVER	8	-	-	-	-	-	1	-	-	-	1	-	-	1	-	2	-	2	-	-	1	-
MERCER COUNTY	157	26	-	-	3	13	-	2	17	5	1	2	-	16	14	20	19	8	4	2	3	2
1 TO 19 EMPLOYEES	96	18	-	-	3	10	-	2	14	2	1	2	-	12	3	9	14	2	2	-	2	-
20 TO 99 EMPLOYEES	38	7	-	-	-	3	-	-	2	3	-	-	-	4	2	8	3	1	1	1	1	2
100 TO 249 EMPLOYEES	10	1	-	-	-	-	-	-	1	-	-	-	-	-	3	1	1	2	-	1	-	-
250 EMPLOYEES AND OVER	13	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	1	3	1	-	-	-
MIFFLIN COUNTY	56	11	-	-	5	9	-	-	4	1	-	1	-	5	4	6	4	3	1	-	2	-
1 TO 19 EMPLOYEES	31	10	-	-	-	5	-	-	3	-	-	-	-	5	1	3	2	-	1	-	1	-
20 TO 99 EMPLOYEES	15	1	-	-	3	3	-	-	1	-	-	1	-	-	1	1	1	2	-	-	1	-
100 TO 249 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	2	-	-	-	-	1	-	-	-	-	2	-	1	1	-	-	-	-
MONROE COUNTY	97	3	-	8	16	6	2	1	12	5	1	1	1	7	3	11	7	6	-	-	3	4
1 TO 19 EMPLOYEES	49	2	-	3	2	5	-	-	7	1	1	-	1	6	1	6	6	3	-	-	2	3
20 TO 99 EMPLOYEES	34	1	-	4	13	1	1	-	4	2	-	-	-	1	1	4	1	1	-	-	-	-
100 TO 249 EMPLOYEES	12	-	-	1	1	-	1	1	-	2	-	1	-	-	1	-	-	2	-	-	1	1
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
MONTGOMERY COUNTY	1458	74	1	36	72	32	27	30	178	56	10	66	4	78	33	190	264	98	19	73	53	64
1 TO 19 EMPLOYEES	904	44	-	19	28	27	14	14	142	31	6	36	2	45	14	115	191	59	8	45	41	23
20 TO 99 EMPLOYEES	361	13	1	10	31	5	9	11	24	15	3	18	2	21	14	57	52	22	6	14	11	22
100 TO 249 EMPLOYEES	117	10	-	7	9	-	1	2	10	4	-	7	-	9	2	14	10	13	1	7	1	10
250 EMPLOYEES AND OVER	76	7	-	-	4	-	3	3	2	6	1	5	-	3	3	4	11	4	4	7	-	9
MONTOUR COUNTY	17	-	-	1	1	-	2	-	2	4	1	-	-	-	-	-	3	-	2	1	-	-
1 TO 19 EMPLOYEES	7	-	-	-	-	-	1	-	1	3	1	-	-	-	-	-	-	-	-	1	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
250 EMPLOYEES AND OVER	5	-	-	1	-	-	1	-	-	1	-	-	-	-	-	-	2	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NORTHAMPTON COUNTY	427	27	-	18	159	10	8	6	36	14	2	11	-	33	6	33	24	5	4	5	13	13
1 TO 19 EMPLOYEES	180	22	-	3	28	8	4	1	27	10	2	3	-	17	2	17	15	1	3	3	8	6
20 TO 99 EMPLOYEES	173	2	-	13	105	2	4	3	5	2	-	6	-	6	2	12	5	1	1	1	2	1
100 TO 249 EMPLOYEES	47	2	-	-	18	-	-	1	3	1	-	1	-	10	-	2	2	1	-	-	-	6
250 EMPLOYEES AND OVER	27	1	-	2	8	-	-	1	1	1	-	1	-	-	2	2	2	2	-	1	3	-
NORTHUMBERLAND COUNTY	158	33	-	6	29	9	3	4	13	3	2	2	3	11	3	9	5	4	5	3	7	4
1 TO 19 EMPLOYEES	71	20	-	3	4	4	2	-	9	3	1	1	-	6	-	4	3	2	1	3	4	1
20 TO 99 EMPLOYEES	56	7	-	1	17	2	1	3	4	-	1	-	1	5	1	5	2	-	2	-	1	3
100 TO 249 EMPLOYEES	20	3	-	1	6	3	-	1	-	-	-	1	1	-	1	-	-	1	1	-	1	-
250 EMPLOYEES AND OVER	11	3	-	1	2	-	-	-	-	-	-	-	1	-	1	-	-	1	1	-	1	-
PERRY COUNTY	38	7	-	-	12	8	1	-	6	-	-	1	-	-	-	1	1	-	-	-	-	1
1 TO 19 EMPLOYEES	24	6	-	-	1	8	-	-	6	-	-	-	-	-	-	1	1	-	-	-	-	1
20 TO 99 EMPLOYEES	13	1	-	-	10	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHILADELPHIA COUNTY	2816	216	-	146	383	52	109	101	458	111	19	65	30	46	50	303	254	117	43	76	165	72
1 TO 19 EMPLOYEES	1769	114	-	70	186	46	71	44	346	66	9	44	19	29	29	201	183	74	33	49	128	28
20 TO 99 EMPLOYEES	712	50	-	50	139	6	27	36	76	37	7	19	8	11	14	76	49	26	3	24	28	26
100 TO 249 EMPLOYEES	220	29	-	17	40	-	10	17	25	3	-	2	3	4	6	19	14	8	3	3	8	9
250 EMPLOYEES AND OVER	115	23	-	9	18	-	1	4	11	5	3	-	-	2	1	7	8	9	4	-	1	9
PIKE COUNTY	16	1	-	-	2	1	-	-	1	-	-	-	-	-	-	3	5	1	-	-	2	-
1 TO 19 EMPLOYEES	11	-	-	-	-	1	-	-	1	-	-	-	-	-	-	2	5	1	-	-	1	-
20 TO 99 EMPLOYEES	5	1	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
POTTER COUNTY	44	2	-	-	-	21	4	-	2	2	-	2	1	3	-	1	-	3	-	2	1	-
1 TO 19 EMPLOYEES	32	2	-	-	-	17	3	-	1	1	-	2	-	3	-	-	-	-	-	2	1	-
20 TO 99 EMPLOYEES	9	-	-	-	-	4	1	-	1	1	-	-	1	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
SCHUYLKILL COUNTY	294	24	2	22	107	18	1	4	14	5	3	6	5	13	8	27	15	6	6	-	6	2
1 TO 19 EMPLOYEES	121	18	-	5	18	12	-	2	10	2	3	1	-	11	2	15	12	5	1	-	3	1
20 TO 99 EMPLOYEES	108	6	1	10	55	3	1	1	3	1	-	2	3	2	4	7	2	1	4	-	2	-
100 TO 249 EMPLOYEES	50	-	1	3	30	3	-	1	1	1	-	-	1	-	1	5	1	-	1	-	-	1
250 EMPLOYEES AND OVER	15	-	-	4	4	-	-	-	-	1	-	3	1	-	1	-	-	-	-	-	1	-
SNYDER COUNTY	66	6	-	3	15	11	3	2	5	-	-	-	1	4	-	3	4	1	6	1	-	1
1 TO 19 EMPLOYEES	29	3	-	-	4	7	1	-	5	-	-	-	-	-	-	1	2	1	3	1	-	1
20 TO 99 EMPLOYEES	27	2	-	1	10	1	2	2	-	-	-	-	-	4	-	1	2	-	2	-	-	-
100 TO 249 EMPLOYEES	8	1	-	2	1	2	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
SOMERSET COUNTY	124	13	-	-	11	36	3	-	8	1	1	3	1	11	3	7	16	2	4	2	1	1
1 TO 19 EMPLOYEES	84	9	-	-	-	32	2	-	7	1	1	2	-	9	2	3	11	2	1	-	1	1
20 TO 99 EMPLOYEES	27	3	-	-	6	4	-	-	1	-	-	1	-	1	1	3	5	-	1	1	-	-
100 TO 249 EMPLOYEES	11	1	-	-	4	-	1	-	-	-	-	-	1	1	-	1	-	-	1	1	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
SULLIVAN COUNTY	20	1	-	-	2	12	-	-	2	-	-	-	1	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	14	1	-	-	1	9	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
SUSQUEHANNA COUNTY	63	4	-	1	12	21	-	-	8	-	-	2	1	2	2	1	4	3	-	1	1	-
1 TO 19 EMPLOYEES	42	3	-	1	4	18	-	-	7	-	-	1	-	1	1	1	3	1	-	-	1	-
20 TO 99 EMPLOYEES	16	1	-	-	7	3	-	-	1	-	-	1	-	1	-	-	1	1	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-
TIOGA COUNTY	48	6	-	-	2	18	-	1	5	-	-	1	1	2	1	6	4	1	-	-	-	-
1 TO 19 EMPLOYEES	35	5	-	-	-	18	-	1	5	-	-	-	-	1	1	2	2	-	-	-	-	-
20 TO 99 EMPLOYEES	6	1	-	-	1	-	-	-	-	-	-	1	-	-	-	2	1	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-
UNION COUNTY	35	3	-	3	4	5	4	1	4	-	1	-	-	3	2	1	2	-	-	1	-	1
1 TO 19 EMPLOYEES	19	3	-	-	1	2	2	-	3	-	1	-	-	3	1	-	1	-	-	1	-	1
20 TO 99 EMPLOYEES	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	11	-	-	3	1	3	1	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
VENANGO COUNTY	92	3	-	-	1	19	-	-	11	4	5	2	-	5	8	6	20	1	2	-	1	4
1 TO 19 EMPLOYEES	55	1	-	-	-	16	-	-	8	2	2	-	-	4	4	-	13	1	2	-	-	2
20 TO 99 EMPLOYEES	22	2	-	-	1	3	-	-	3	2	1	2	-	-	1	4	2	-	-	-	1	-
100 TO 249 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	1	-	-	-	2	1	1	-	-	-	-	1
250 EMPLOYEES AND OVER	9	-	-	-	-	-	-	-	-	-	1	-	-	1	1	1	4	-	-	-	-	1
WARREN COUNTY	101	6	-	-	-	26	3	1	8	2	3	5	-	6	4	13	9	9	4	-	1	1
1 TO 19 EMPLOYEES	62	5	-	-	-	22	1	-	7	1	1	1	-	4	1	5	7	4	2	-	1	-
20 TO 99 EMPLOYEES	26	1	-	-	-	4	1	1	1	1	1	2	-	2	1	5	-	3	2	-	-	1
100 TO 249 EMPLOYEES	6	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	1	2	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	-	-	-	-	-	-	1	2	-	-	2	1	1	-	-	-	-	-
WASHINGTON COUNTY	243	25	-	1	8	21	3	3	20	11	2	9	-	21	20	26	46	4	2	6	5	10
1 TO 19 EMPLOYEES	134	14	-	1	4	15	1	-	16	5	1	4	-	12	5	10	26	2	2	5	5	6
20 TO 99 EMPLOYEES	72	11	-	-	2	6	2	1	3	4	1	4	-	5	4	12	15	-	-	-	-	2
100 TO 249 EMPLOYEES	23	-	-	-	1	-	-	2	1	1	-	1	-	-	7	3	4	-	-	1	-	2
250 EMPLOYEES AND OVER	14	-	-	-	1	-	-	-	-	1	-	-	-	4	4	1	1	2	-	-	-	-
WAYNE COUNTY	71	6	-	6	12	20	2	-	7	1	-	1	-	6	-	1	2	1	-	-	4	2
1 TO 19 EMPLOYEES	51	6	-	3	4	18	1	-	5	1	-	1	-	5	-	1	2	-	-	-	4	-
20 TO 99 EMPLOYEES	12	-	-	2	4	2	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	2
100 TO 249 EMPLOYEES	6	-	-	1	2	-	1	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WESTMORELAND COUNTY	497	37	-	-	15	35	9	7	40	7	4	20	-	45	39	62	119	26	11	8	11	2
1 TO 19 EMPLOYEES	312	27	-	-	7	32	6	1	28	3	4	10	-	19	13	42	83	13	8	5	10	1
20 TO 99 EMPLOYEES	117	8	-	-	4	3	3	2	9	2	-	7	-	17	9	16	26	6	2	2	1	-
100 TO 249 EMPLOYEES	40	2	-	-	4	-	-	4	2	2	-	2	-	3	4	3	8	5	1	-	-	-
250 EMPLOYEES AND OVER	28	-	-	-	-	-	-	-	1	-	-	1	-	6	13	1	2	2	-	1	-	1
WYOMING COUNTY	47	5	-	1	9	10	-	2	4	-	2	1	1	1	-	3	3	1	-	1	1	2
1 TO 19 EMPLOYEES	32	4	-	1	2	10	-	-	4	-	1	-	-	1	-	2	3	1	-	1	1	1
20 TO 99 EMPLOYEES	12	1	-	-	7	-	-	-	-	-	1	1	-	-	-	1	-	-	-	-	-	1
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YORK COUNTY	605	72	10	17	43	41	28	25	57	9	3	15	10	27	23	52	103	23	16	10	9	12
1 TO 19 EMPLOYEES	320	44	6	5	11	27	15	5	35	4	2	11	5	18	8	26	65	5	9	8	6	5
20 TO 99 EMPLOYEES	173	19	3	3	19	12	9	12	12	5	-	1	2	4	7	18	27	9	4	1	2	4
100 TO 249 EMPLOYEES	67	8	-	8	10	2	2	7	6	-	1	2	-	4	2	4	5	4	-	-	-	2
250 EMPLOYEES AND OVER	45	1	1	1	3	-	2	1	4	-	-	1	3	1	6	4	6	5	3	1	1	1

Note: Data on number of establishments by employment aize class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series ia available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

Rhode Island

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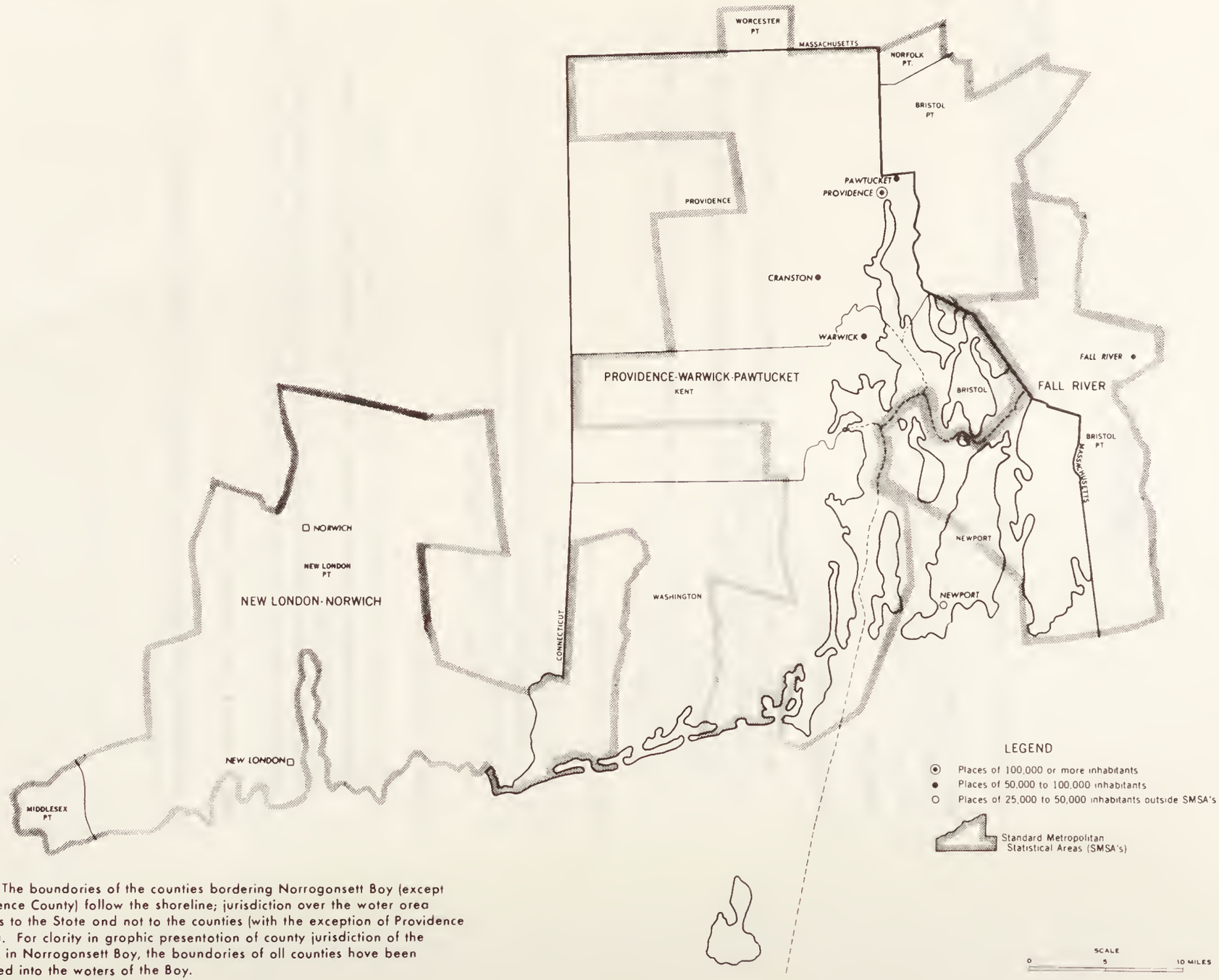
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RHODE ISLAND



NOTE: The boundaries of the counties bordering Norrogonsett Boy (except Providence County) follow the shoreline; jurisdiction over the woter orea belongs to the Stote ond not to the counties (with the exception of Providence County). For clority in grophic presentotion of county jurisdiction of the islonds in Norrogonsett Boy, the boundories of oll counties hove been extended into the woters of the Boy.

SUMMARY OF FINDINGS

In 1977, 125.0 thousand persons were employed in Rhode Island's manufacturing establishments. This figure represented an increase of 6 percent from the 1972 figure of 118.1 thousand workers.

The total value added by manufacture for the State amounted to $2,737 million in 1977, an increase of approximately 55 percent from the 1972 figure of $1,764 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were miscellaneous manufacturing industries (mainly comprised of costume and precious jewelry) fabricated metal products; textile mill products; and machinery, except electrical. They accounted for approximately 56 percent of the State's 1977 employment. The order has shifted from 1972 when miscellaneous manufacturing industries; textile mill products; primary metal industries; and machinery, except electrical accounted for approximately 58 percent of the State's employment.

The most important counties in the State ranked by employment were Providence, Kent, Washington, and Bristol. They accounted for approximately 97 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Providence, Kent, Bristol, and Washington accounted for approximately 97 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 8 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Rhode Island:						
1977	125.0	1,326.5	123.6	1,296.8	1.4	29.7
1972	118.1	888.2	116.5	865.6	1.6	22.6
1967	122.3	700.4	121.0	687.4	1.3	13.0
1963	113.9	533.4	112.6	523.2	1.3	10.2
STANDARD METROPOLITAN STATISTICAL AREAS						
Fall River, Mass.-R.I.:						
1977	22.3	205.4	22.2	204.5	.1	.9
1972	25.5	175.1	(D)	(D)	(D)	(D)
1967	21.3	93.3	(D)	(D)	(D)	(D)
1963	23.4	88.0	(D)	(D)	(D)	(D)
New London-Norwich, Conn.-R.I.:						
1977	41.8	575.8	41.6	573.6	.2	2.2
1972	29.2	276.7	29.1	275.6	.1	.9
Providence-Pawtucket-Warwick, R.I.-Mass.:						
1977	140.0	1,494.4	138.5	1,463.6	1.5	30.8
1972	131.9	994.4	130.3	971.8	1.6	22.6
1967	138.0	789.8	136.7	776.8	1.3	13.0
1963	125.9	596.4	124.6	586.2	1.3	10.1

(D) Withheld to avoid disclosing operations of individual companies.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city and town totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
	RHODE ISLAND														
1977 CENSUS.	3 107	945	125.0	1 326.5	94.7	177.5	825.2	2 736.6	2 673.5	5 364.6	145.6	.64	100	100	19 596.9
1976 ASM....	(NA)	(NA)	115.1	1 150.0	88.9	166.0	719.8	2 294.8	2 279.3	4 532.7	143.4	.61	92	96	18 753.0
1975 ASM....	(NA)	(NA)	107.3	999.7	81.5	152.7	615.9	1 977.3	1 889.1	3 924.0	119.5	.59	86	94	18 302.2
1974 ASM....	(NA)	(NA)	121.0	1 043.3	94.2	177.0	661.2	2 182.9	1 998.4	4 081.1	119.5	.61	97	102	19 844.8
1973 ASM....	(NA)	(NA)	122.2	976.8	94.7	180.2	620.2	1 924.2	1 731.2	3 629.4	88.7	.61	98	102	19 897.9
1972 CENSUS.	2 756	904	118.1	888.2	91.4	174.2	565.9	1 764.4	1 479.3	3 218.6	100.5	.62	94	98	19 028.7
1971 ASM....	(NA)	(NA)	110.6	757.8	84.5	162.5	486.9	1 468.9	1 248.4	2 715.0	80.0	.60	88	94	18 363.1
1970 ASM....	(NA)	(NA)	118.7	770.9	90.9	176.4	499.0	1 402.4	1 267.1	2 680.3	72.7	.62	95	99	19 217.2
1969 ASM....	(NA)	(NA)	125.1	762.5	99.3	191.2	503.4	1 472.6	1 299.9	2 775.2	80.9	.62	100	103	20 035.5
1968 ASM....	(NA)	(NA)	124.9	746.0	98.2	193.6	488.1	1 443.6	1 288.4	2 717.0	91.5	.64	100	100	19 527.6
1967 CENSUS.	2 703	922	122.3	700.4	96.6	188.5	466.9	1 350.9	1 228.1	2 560.5	74.8	.63	98	99	19 323.2
1966 ASM....	(NA)	(NA)	127.1	682.9	100.4	200.5	464.6	1 354.9	1 254.1	2 580.7	75.0	.67	102	98	19 024.5
1965 ASM....	(NA)	(NA)	121.5	612.2	95.9	191.2	417.0	1 207.4	1 105.0	2 271.0	54.2	.67	97	92	18 010.2
1964 ASM....	(NA)	(NA)	113.7	557.7	89.3	177.8	376.5	1 006.8	988.2	2 002.7	47.2	.66	91	89	17 268.5
1963 CENSUS.	2 710	868	113.9	533.4	90.0	177.2	365.3	958.6	(NA)	(NA)	43.1	.67	91	87	16 958.4
	NEW LONDON-NORWICH, CONN.-R.I., SMSA														
1977 CENSUS.	286	108	41.8	575.8	26.6	51.3	305.5	1 081.4	780.7	1 847.4	49.3	.21	100	100	19 596.9
1976 ASM....	(NA)	(NA)	38.8	507.0	24.0	46.0	264.0	943.8	698.7	1 640.9	59.2	.21	93	96	18 753.0
1975 ASM....	(NA)	(NA)	37.3	399.0	22.3	36.9	187.8	749.2	591.9	1 330.1	110.0	.20	89	94	18 302.2
1974 ASM....	(NA)	(NA)	35.9	396.9	22.1	43.9	204.8	651.2	567.8	1 190.2	81.4	.18	86	102	19 844.8
1973 ASM....	(NA)	(NA)	36.5	319.3	19.9	40.2	166.7	523.5	420.7	944.9	50.8	.18	87	102	19 897.9
1972 CENSUS.	252	107	29.2	276.7	18.6	37.5	144.5	457.4	335.1	784.4	36.1	.15	70	98	19 028.7
	PROVIDENCE-WARWICK-PAWTUCKET, R.I.-MASS., SMSA														
1977 CENSUS.	3 320	1 026	140.0	1 494.4	107.3	202.2	947.1	3 040.4	3 161.2	6 158.6	173.3	.71	100	100	19 596.9
1976 ASM....	(NA)	(NA)	125.5	1 261.3	97.9	184.2	805.4	2 481.3	2 589.1	5 032.8	144.8	.67	90	96	18 753.0
1975 ASM....	(NA)	(NA)	117.1	1 095.8	89.8	168.3	682.8	2 168.6	2 188.6	4 415.3	122.2	.64	84	94	18 302.2
1974 ASM....	(NA)	(NA)	134.7	1 163.4	106.2	199.5	753.5	2 404.4	2 385.9	4 686.7	124.4	.68	96	102	19 844.8
1973 ASM....	(NA)	(NA)	138.2	1 097.1	107.5	205.8	697.4	2 204.6	2 044.9	4 221.9	98.9	.69	99	102	19 897.9
1972 CENSUS.	2 991	997	131.9	994.4	102.4	197.7	632.9	1 959.9	1 713.3	3 633.4	108.0	.69	94	98	19 028.7
1971 ASM....	(NA)	(NA)	126.3	867.1	96.3	185.4	550.9	1 672.5	1 432.0	3 093.5	86.7	.69	90	94	18 363.1
1970 ASM....	(NA)	(NA)	137.0	885.5	105.0	203.2	570.8	1 624.7	1 439.0	3 072.3	85.6	.71	98	99	19 217.2
1969 ASM....	(NA)	(NA)	141.0	861.2	112.9	218.4	574.4	1 681.6	1 461.4	3 138.3	91.6	.70	101	103	20 035.5
1968 ASM....	(NA)	(NA)	139.6	834.4	111.6	216.2	570.4	1 607.2	1 437.0	3 027.1	101.7	.71	100	100	19 527.6
1967 CENSUS.	2 925	1 024	138.0	789.9	108.8	212.7	526.8	1 533.9	1 377.4	2 885.0	89.2	.71	99	99	19 323.2
1966 ASM....	(NA)	(NA)	140.3	754.1	110.9	221.5	510.2	1 534.2	1 379.8	2 875.6	89.3	.74	100	98	19 024.5
1965 ASM....	(NA)	(NA)	133.9	676.3	105.6	210.9	458.3	1 356.9	1 207.6	2 522.5	61.5	.74	96	92	18 010.2
1964 ASM....	(NA)	(NA)	125.7	623.6	98.7	197.2	419.9	1 145.8	1 078.7	2 229.1	53.5	.73	90	89	17 268.5
1963 CENSUS.	2 918	951	125.9	596.4	99.2	197.2	406.7	1 075.2	(NA)	(NA)	47.8	.74	90	87	16 958.4

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establiahments canvassed annually and may differ from resulta of a complete canvass of all establiahments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central adminiatrative offices and auxiliariea (for definition, see appendix B).

[3]Aggregate of coat of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since producta of aome industries are uaed as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	RHODE ISLAND								
1977 CENSUS	10 608	76	1 875	4.65	50	75	21 885	48	15.42
1976 ASM	9 991	77	1 867	4.34	50	76	19 937	50	13.82
1975 ASM	9 317	76	1 874	4.03	48	74	18 428	51	12.95
1974 ASM	8 622	78	1 879	3.74	49	75	18 040	48	12.33
1973 ASM	7 993	77	1 903	3.44	48	75	15 746	51	10.68
1972 CENSUS	7 521	77	1 906	3.25	46	74	14 940	50	10.13
1971 ASM	6 852	76	1 923	3.00	46	74	13 281	52	9.04
1970 ASM	6 495	77	1 941	2.83	47	76	11 815	55	7.95
1969 ASM	6 095	79	1 925	2.63	47	74	11 771	52	7.70
1968 ASM	5 973	79	1 971	2.52	47	75	11 558	52	7.46
1967 CENSUS	5 727	79	1 951	2.48	48	75	11 046	52	7.17
1966 ASM	5 373	79	1 997	2.32	49	75	10 660	50	6.76
1965 ASM	5 039	79	1 994	2.18	49	76	9 937	51	6.31
1964 ASM	4 905	79	1 991	2.12	49	77	8 855	55	5.66
1963 CENSUS	4 683	79	1 969	2.06	(NA)	(NA)	8 416	56	5.41
	NEW LONDON-NORWICH, CONN.-R.I., SMSA								
1977 CENSUS	13 785	64	1 929	5.96	42	73	25 888	53	21.09
1976 ASM	13 067	62	1 917	5.74	43	73	24 325	54	20.52
1975 ASM	10 697	60	1 655	5.09	45	74	20 086	53	20.30
1974 ASM	11 056	62	1 986	4.67	48	81	18 139	61	14.83
1973 ASM	8 748	55	2 020	4.15	45	78	14 342	61	13.02
1972 CENSUS	9 476	64	2 016	3.85	43	78	15 664	60	12.20
	PROVIDENCE-WARWICK-PAWTUCKET, R.I.-MASS., SMSA								
1977 CENSUS	10 675	77	1 884	4.68	51	76	21 718	49	15.04
1976 ASM	10 050	78	1 882	4.37	51	77	19 771	51	13.47
1975 ASM	9 358	77	1 874	4.06	50	74	18 519	51	12.89
1974 ASM	8 637	79	1 879	3.78	51	76	17 850	48	12.05
1973 ASM	7 938	78	1 914	3.39	48	74	15 952	50	10.71
1972 CENSUS	7 539	78	1 931	3.20	47	75	14 859	51	9.91
1971 ASM	6 865	76	1 925	2.97	46	74	13 242	52	9.02
1970 ASM	6 464	77	1 935	2.81	47	76	11 859	55	8.00
1969 ASM	6 108	80	1 934	2.63	47	74	11 926	51	7.70
1968 ASM	5 977	80	1 937	2.64	47	75	11 513	52	7.43
1967 CENSUS	5 724	79	1 955	2.48	48	75	11 115	51	7.21
1966 ASM	5 375	79	1 997	2.30	48	74	10 935	49	6.93
1965 ASM	5 051	79	1 997	2.17	48	75	10 134	50	6.43
1964 ASM	4 961	79	1 998	2.13	48	76	9 115	54	5.81
1963 CENSUS	4 737	79	1 988	2.06	(NA)	(NA)	8 540	55	5.45

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	3 107	2 756
With 1 to 19 employees	do	2 162	1 852
With 20 to 99 employees	do	688	644
With 100 employees or more	do	257	260
All employees, average for year[1]	1,000	125.0	118.1
Payroll for year, all employees[1]	mil. dollars	1 326.5	888.2
Production workers:			
Average for year	1,000	94.7	91.4
March	do	92.4	87.9
May	do	92.9	89.4
August	do	95.0	92.3
November	do	98.2	96.1
Hours	millions	177.5	174.2
January to March	do	43.1	42.4
April to June	do	45.4	44.1
July to September	do	42.6	41.7
October to December	do	46.5	46.1
Wages	mil. dollars	825.2	565.9
Cost of materials, etc.[2]	do	2 673.5	1 479.3
Materials, parts, containers, etc., consumed	do	2 334.1	1 275.8
Resales	do	142.4	94.6
Fuels consumed	do	45.4	19.9
Purchased electric energy	do	54.7	24.8
Contract work	do	96.9	64.2
Value of shipments, including resales[2]	do	5 364.6	3 218.6
Value of resales	do	185.9	125.5
Value added by manufacture	do	2 736.6	1 764.4
Manufacturers' inventories:			
Beginning of year	do	819.1	465.7
Finished products	do	305.0	196.0
Work in process	do	221.1	128.4
Materials, supplies, fuel, etc.	do	293.0	141.2
End of year	do	899.8	511.0
Finished products	do	332.6	202.3
Work in process	do	239.4	143.1
Materials, supplies, fuel, etc.	do	327.8	165.6
Capital expenditures for plant and equipment	do	158.2	105.8
New capital expenditures	do	145.6	100.5
New buildings and other structures	do	31.6	20.1
New machinery and equipment	do	114.0	80.3
Used capital expenditures	do	12.6	5.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	1,347.5	1
New capital expenditures	166.7	4
Used capital expenditures	13.7	13
Retirements	(61.0)	17
End of year	1,466.9	1
Buildings and other structures:		
Beginning of year	367.6	4
New capital expenditures	(41.5)	25
Used capital expenditures	(5.9)	16
Retirements	(10.3)	18
End of year	404.6	5
Machinery and equipment:		
Beginning of year	980.0	2
New capital expenditures	125.3	9
Automobiles, trucks, etc., for highway use	4.1	(NA)
Computers and peripheral data processing equip.	3.0	(NA)
All other	95.7	(NA)
New machinery and equipment, n.s.k.	22.5	(NA)
Used capital expenditures	(7.8)	15
Retirements	(50.7)	20
End of year	1,062.4	1

Item	Amount (million dollars)	Standard error of estimate (percent)
Rental payments:		
Total	39.9	4
Buildings and other structures	24.0	6
Machinery and equipment	15.9	6
Depreciation charges during 1977:		
Total	104.8	9
Buildings and other structures	16.5	12
Machinery and equipment	88.3	8
Supplemental labor costs:		
Total	218.8	2
Legal costs	107.8	2
Voluntary costs	111.1	3
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	7.6	13
Response coverage ratio (percent)	64	(X)
Machinery	26.6	14
Response coverage ratio (percent)	66	(X)
Cost of purchased communication services	14.9	13
Response coverage ratio (percent)	65	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities and Towns: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Rhode Island	-	3 107	945	125.0	1 326.5	94.7	177.5	825.2	2 736.6	2 673.5	5 364.6	145.6	118.1	1 764.4
STANDARD METROPOLITAN STATISTICAL AREAS														
Fall River, Mass.-R.I.	-	310	166	22.3	205.4	17.8	32.7	138.0	400.4	341.8	738.6	13.8	25.5	338.6
Portion in Massachusetts	-	286	158	19.6	165.3	16.5	30.0	123.2	324.6	288.0	608.3	11.5	22.7	283.5
Portion in Rhode Island	-	24	8	2.7	40.2	1.3	2.7	14.8	75.7	53.8	130.3	2.3	2.8	55.1
New London-Norwich, Conn.-R.I.	-	286	108	41.8	575.8	26.6	51.3	305.5	1 081.4	780.7	1 847.4	49.3	29.2	457.4
Portion in Rhode Island	-	45	17	1.8	18.4	1.3	2.6	12.6	38.9	36.5	73.5	2.3	2.3	22.8
Portion in Connecticut	-	241	91	40.0	557.5	25.2	48.7	292.8	1 042.5	744.2	1 773.9	47.0	27.0	434.6
Providence-Warwick-Pawtucket, R.I.-Mass.	-	3 320	1 026	140.0	1 494.4	107.3	202.2	947.1	3 040.4	3 161.2	6 158.6	173.3	131.9	1 959.9
Portion in Massachusetts	-	349	128	21.6	249.8	17.0	33.1	165.8	467.1	616.4	1 083.9	35.4	20.4	297.4
Portion in Rhode Island	-	2 971	898	118.4	1 244.6	90.3	169.1	781.3	2 573.4	2 544.8	5 074.7	137.9	111.5	1 662.5
COUNTIES														
Bristol	-	89	35	4.7	44.7	3.7	7.0	28.5	82.6	86.7	176.1	2.9	5.5	78.3
Kent	-	361	109	15.5	176.9	11.5	21.2	106.8	372.0	340.3	696.8	14.0	12.9	190.7
Newport	-	64	19	3.7	49.8	2.1	4.0	21.6	99.0	70.6	170.5	4.1	3.5	68.4
Providence	-	2 485	745	91.1	931.0	69.6	130.0	586.2	1 959.8	1 980.2	3 905.4	114.9	91.0	1 362.8
Washington	-	108	37	10.1	124.2	7.8	15.3	82.1	223.3	195.8	415.8	9.7	5.1	64.2
CITIES AND TOWNS														
Bristol town	-	42	18	1.8	19.0	1.2	2.5	11.9	33.5	26.4	59.8	1.2	2.7	32.8
Central Falls	-	71	32	3.9	39.1	3.1	5.8	27.2	93.3	69.9	161.7	4.8	3.7	56.1
Coventry town	-	54	10	1.7	19.6	1.3	2.3	12.2	37.9	51.6	87.2	3.3	2.1	28.4
Cranston	E1	203	59	6.6	76.0	4.6	8.7	42.8	137.1	165.6	299.2	12.2	6.5	112.0
Cumberland town	E1	40	22	3.0	31.2	2.5	4.9	23.2	58.9	82.6	142.2	7.5	2.9	37.9
East Greenwich town	E1	33	7	2.7	37.7	1.9	3.3	23.5	66.2	54.1	119.7	1.5	1.5	26.1
East Providence	-	136	48	8.7	80.9	5.9	10.7	52.4	169.2	165.9	325.9	8.2	7.1	99.7
Johnston town	E2	147	23	1.8	15.2	1.6	2.7	10.3	29.8	31.5	61.1	1.3	0.9	10.6
Lincoln town	-	71	31	3.7	40.4	3.0	5.7	27.1	103.3	111.5	210.0	17.6	2.7	47.8
North Kingstown town	-	22	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
North Providence town	E1	99	21	2.2	20.2	1.9	3.7	15.0	41.3	30.2	70.5	1.6	4.8	64.6
North Smithfield town	-	26	5	1.9	17.3	1.4	2.6	9.1	66.1	30.8	95.8	(D)	2.7	77.2
Pawtucket	-	277	122	16.4	162.9	12.9	24.5	106.8	380.4	509.8	882.2	14.5	16.8	240.0
Providence	-	1 177	297	35.5	375.3	26.6	49.2	221.4	736.2	637.4	1 369.6	32.5	35.0	526.5
Smithfield town	E1	70	17	1.5	18.6	1.2	2.2	11.9	40.9	18.9	59.4	1.8	1.3	22.9
Warren town	-	36	13	2.6	22.3	2.2	3.9	14.7	42.2	56.4	105.7	1.6	2.3	39.4
Warwick	-	194	60	7.8	87.3	5.7	10.9	51.0	207.8	172.1	368.5	7.1	6.6	100.1
Westerly town	-	27	11	1.3	14.0	1.0	2.0	9.7	25.6	29.4	54.2	1.8	(D)	(D)
West Warwick town	-	75	30	3.1	29.0	2.3	4.4	18.3	55.7	56.9	111.7	1.8	2.6	34.7
Woonsocket	E1	126	56	5.2	46.9	4.5	8.3	34.5	91.9	96.5	185.7	5.4	5.8	59.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	3 107	945	125.0	1 326.5	94.7	177.5	825.2	2 736.6	2 673.5	5 364.6	145.6	118.1	1 764.4
20	**Food and kindred products**	E1	154	37	3.7	41.8	2.4	4.3	22.4	86.1	183.2	268.5	4.2	5.0	104.6
202	Dairy products	E5	26	8	0.5	4.9	0.3	0.5	2.2	7.8	39.3	47.1	0.8	1.0	17.5
2026	Fluid milk	E6	16	6	0.4	3.8	0.2	0.4	1.6	4.3	30.6	34.9	0.7	0.9	15.7
205	Bakery products	-	42	8	1.1	13.5	0.5	0.7	4.0	26.1	27.3	53.4	0.6	1.4	45.2
2051	Bread, cake, and related products	-	41	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
206	Sugar and confectionery products	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2065	Confectionery products	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
207	Fats and oils	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.2
2079	Shortening and cooking oils	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
208	Beverages	E1	19	5	0.7	9.2	0.5	0.8	6.2	19.3	39.9	59.0	0.6	0.9	24.0
2082	Malt beverages	E1	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2086	Bottled and canned soft drinks	-	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
209	Miscellaneous foods and kindred products	E1	30	8	0.5	4.1	0.4	0.7	2.8	10.5	23.2	33.6	0.8	BB	(D)
2092	Fresh or frozen packaged fish	-	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2099	Food preparations, n.e.c.	E2	9	2	0.2	1.4	0.1	0.2	0.8	3.5	5.5	9.1	0.2	(NA)	(NA)
22	**Textile mill products**	-	200	120	12.8	119.7	10.8	21.7	87.5	215.9	252.8	467.7	14.7	16.9	188.7
2211	Weaving mills, cotton	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2221	Weaving mills, manmade fiber and silk	E1	15	10	0.7	7.0	0.6	1.3	5.8	11.3	14.2	25.9	1.4	1.4	20.1
2231	Weaving and finishing mills, wool	E1	17	10	1.0	9.8	1.0	2.3	8.8	20.8	19.2	40.3	0.6	0.6	6.1
2241	Narrow fabric mills	-	42	28	3.4	28.8	2.9	5.6	21.2	49.5	55.6	105.4	2.7	4.3	46.6
225	Knitting mills	-	14	10	1.4	13.3	1.2	2.3	10.3	23.1	45.6	67.7	2.6	2.5	30.5
2257	Circular knit fabric mills	-	7	3	0.8	6.9	0.7	1.3	5.5	9.5	21.4	31.0	(D)	2.0	24.0
2258	Warp knit fabric mills	-	7	7	0.6	6.4	0.5	1.0	4.8	13.5	24.2	36.7	(D)	CC	(D)
226	Textile finishing, except wool	E1	30	20	2.3	24.4	1.7	3.2	15.6	34.7	30.3	65.4	2.5	2.9	32.2
2261	Finishing plants, cotton	E2	15	8	0.8	9.6	0.5	0.9	4.3	9.2	7.0	16.2	0.7	BB	(D)
2262	Finishing plants, synthetics	-	8	7	1.1	12.2	0.9	1.8	9.2	19.7	15.0	35.0	1.6	1.6	18.3
2269	Finishing plants, n.e.c.	E2	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
227	Floor covering mills	E3	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2279	Carpets and rugs, n.e.c.	E3	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
228	Yarn and thread mills	-	19	11	1.5	13.9	1.3	2.8	10.2	31.2	41.2	72.2	1.4	1.8	16.3
2282	Throwing and winding mills	-	10	5	0.8	7.9	0.7	1.5	5.6	20.2	31.5	51.7	(D)	BB	(D)
2283	Wool yarn mills	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	6.4
2284	Thread mills	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
229	Miscellaneous textile goods	-	55	25	2.2	19.7	1.8	3.6	13.4	40.8	40.2	80.1	2.5	2.9	34.4
2292	Lace goods	-	22	6	0.5	4.5	0.5	1.0	3.5	7.2	2.8	10.1	0.2	CC	(D)
2293	Paddings and upholstery filling	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2294	Processed textile waste	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2295	Coated fabrics, not rubberized	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2298	Cordage and twine	-	9	5	0.5	4.3	0.5	0.8	3.0	10.2	6.1	16.0	0.2	0.3	2.8
2299	Textile goods, n.e.c.	E4	14	8	0.4	2.7	0.4	0.7	1.9	5.1	3.9	8.8	1.1	0.9	9.0
23	**Apparel and other textile products**	E2	69	33	3.1	23.4	2.7	4.6	17.2	52.6	40.1	91.3	(D)	3.4	35.3
2311	Men's and boys' suits and coats	E7	3	3	0.3	1.8	0.2	0.4	1.3	2.6	3.1	5.8	(D)	BB	(D)
232	Men's and boys' furnishings	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2321	Men's and boys' shirts and nightwear	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
233	Women's and misses' outerwear	E4	22	15	0.9	6.1	0.8	1.3	5.0	11.9	3.3	15.2	(D)	1.0	5.0
2335	Women's and misses' dresses	E4	15	9	0.5	3.0	0.5	0.8	2.5	7.7	2.0	9.7	(D)	CC	(D)
2337	Women's and misses' suits and coats	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	E6	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
236	Children's outerwear	E1	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2361	Children's dresses and blouses	E1	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
238	Miscellaneous apparel and accessories	E2	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.2
2384	Robes and dressing gowns	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	-	31	7	0.6	5.8	0.5	0.9	3.8	15.6	11.6	26.7	(D)	0.5	5.2
2395	Pleating and stitching	-	5	3	0.2	1.9	0.1	0.2	1.2	7.9	3.0	10.6	(D)	(NA)	(NA)
2399	Fabricated textile products, n.e.c.	-	7	3	0.2	1.7	0.2	0.3	1.2	3.3	3.8	6.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
24	**Lumber and wood products**	**E1**	**52**	**7**	**0.5**	**5.1**	**0.4**	**0.8**	**3.8**	**10.3**	**6.8**	**16.8**	**(D)**	**0.4**	**5.1**
243	Millwork, plywood, and structural members	E1	16	2	0.2	2.6	0.2	0.3	2.0	3.9	2.8	6.4	(D)	0.2	2.6
249	Miscellaneous wood products	E2	17	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2499	Wood products, n.e.c.	E2	17	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
25	**Furniture and fixtures**	**-**	**36**	**8**	**0.9**	**8.5**	**0.7**	**1.2**	**5.7**	**18.2**	**17.0**	**35.1**	**(D)**	**0.7**	**10.7**
254	Partitions and fixtures	E2	15	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	10.6
259	Miscellaneous furniture and fixtures	-	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2591	Drapery hardware and blinds and shades	-	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
26	**Paper and allied products**	**-**	**57**	**30**	**2.5**	**27.1**	**2.0**	**4.0**	**18.4**	**56.4**	**63.4**	**119.1**	**2.9**	**2.7**	**33.8**
264	Miscellaneous converted paper products	E1	26	11	0.8	9.6	0.6	1.2	6.1	23.2	28.4	50.2	0.9	0.8	11.8
2641	Paper coating and glazing	E1	9	4	0.4	4.5	0.3	0.6	2.8	7.5	16.7	23.8	0.2	0.3	5.6
2643	Bags, except textile bags	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.9
2649	Converted paper products, n.e.c.	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
265	Paperboard containers and boxes	-	30	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2652	Setup paperboard boxes	E1	14	10	0.6	4.1	0.5	0.9	2.8	7.1	4.1	11.0	0.4	0.7	5.4
2653	Corrugated and solid fiber boxes	-	8	3	0.3	3.2	0.2	0.4	1.9	6.6	8.9	16.1	0.2	AA	(D)
2654	Sanitary food containers	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2655	Fiber cans, drums, and similar products	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2661	Building paper and board mills	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
27	**Printing and publishing**	**-**	**206**	**45**	**4.9**	**66.7**	**3.2**	**6.0**	**38.8**	**127.3**	**75.4**	**202.1**	**6.9**	**5.4**	**101.7**
2711	Newspapers	-	25	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	36.2
275	Commercial printing	E1	135	23	2.1	27.9	1.6	3.2	19.8	49.1	46.0	95.2	4.1	1.7	30.7
2751	Commercial printing, letterpress	E3	73	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2752	Commercial printing, lithographic	E1	55	14	1.0	12.6	0.8	1.5	8.2	26.2	17.2	43.3	1.0	0.6	12.4
2754	Commercial printing, gravure	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2761	Manifold business forms	-	5	5	0.2	2.6	0.2	0.3	1.6	4.5	4.7	9.2	0.2	0.2	3.4
2771	Greeting card publishing	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
278	Blankbooks and bookbinding	-	7	2	0.2	2.0	0.2	0.3	1.4	2.5	2.6	5.1	0.1	AA	(D)
2782	Blankbooks and looseleaf binders	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
279	Printing trade services	-	17	4	0.3	4.4	0.2	0.4	2.9	7.4	1.7	9.0	0.3	0.2	4.9
2795	Lithographic platemaking services	-	5	2	0.2	2.9	0.1	0.2	1.9	4.8	1.2	6.0	0.2	(NA)	(NA)
28	**Chemicals and allied products**	**-**	**67**	**19**	**3.0**	**39.6**	**2.1**	**3.9**	**20.3**	**75.8**	**144.1**	**217.4**	**11.3**	**2.8**	**48.6**
282	Plastics materials and synthetics	E2	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2824	Organic fibers, noncellulosic	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
283	Drugs	-	7	1	0.2	2.5	0.1	0.3	1.2	5.0	2.9	8.0	0.4	(NA)	(NA)
2831	Biological products	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
284	Soaps, cleaners, and toilet goods	-	15	6	0.8	8.3	0.7	1.4	5.5	16.1	37.3	53.0	2.3	0.9	14.6
2841	Soap and other detergents	E1	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2842	Polishes and sanitation goods	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2843	Surface active agents	-	6	4	0.2	2.7	0.2	0.4	1.2	6.0	15.1	20.7	(D)	0.2	4.7
286	Industrial organic chemicals	-	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2865	Cyclic crudes and intermediates	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2869	Industrial organic chemicals, n.e.c.	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
289	Miscellaneous chemical products	-	18	1	0.2	3.0	0.1	0.3	1.3	9.8	28.8	38.5	1.0	(NA)	(NA)
2899	Chemical preparations, n.e.c.	-	15	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
30	**Rubber and miscellaneous plastics products**	-	**110**	**42**	**5.3**	**52.3**	**4.2**	**8.2**	**35.1**	**152.3**	**124.1**	**274.7**	**11.8**	**8.1**	**122.3**
3021	Rubber and plastics footwear	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3069	Fabricated rubber products, n.e.c.	-	14	6	0.8	7.9	0.6	1.1	4.8	13.3	18.6	29.7	0.4	CC	(D)
3079	Miscellaneous plastics products	E1	95	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	99.0
31	**Leather and leather products**	-	**24**	**15**	**2.7**	**20.6**	**2.3**	**3.9**	**13.3**	**42.9**	**51.9**	**99.3**	**1.4**	**1.9**	**28.2**
3131	Boot and shoe cut stock and findings	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3161	Luggage	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
317	Handbags and other personal leather goods	-	12	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3172	Personal leather goods	-	12	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
32	**Stone, clay, and glass products**	-	**50**	**18**	**2.4**	**32.8**	**1.8**	**3.8**	**23.3**	**77.8**	**43.7**	**121.6**	**(D)**	**2.3**	**43.7**
322	Glass and glassware, pressed or blown	-	4	3	1.3	17.6	1.1	2.4	14.9	43.8	21.0	65.9	(D)	EE	(D)
3221	Glass containers	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3229	Pressed and blown glass, n.e.c.	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
327	Concrete, gypsum, and plaster products	E1	25	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	9.1
3273	Ready-mixed concrete	E1	7	4	0.2	3.0	0.2	0.3	1.8	6.9	7.5	14.5	1.0	0.2	2.9
329	Miscellaneous nonmetallic mineral products	-	7	4	0.5	7.4	0.3	0.6	3.4	16.5	7.5	23.4	0.5	(NA)	(NA)
3293	Gaskets, packing, and sealing devices	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
33	**Primary metal industries**	-	**110**	**38**	**8.1**	**98.5**	**6.4**	**13.0**	**87.0**	**249.8**	**421.5**	**865.8**	**9.4**	**9.2**	**175.6**
331	Blast furnace and basic steel products	-	7	3	0.7	11.5	0.6	1.2	9.5	19.9	21.3	40.4	(D)	1.8	34.8
3312	Blast furnaces and steel mills	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3316	Cold finishing of steel shapes	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
332	Iron and steel foundries	E1	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	10.5
3321	Gray iron foundries	-	7	3	0.2	2.0	0.1	0.2	1.4	2.9	1.5	4.6	(D)	CC	(D)
3341	Secondary nonferrous metals	-	10	4	0.2	3.3	0.1	0.3	1.6	43.0	60.1	101.5	1.2	(NA)	(NA)
335	Nonferrous rolling and drawing	-	28	16	6.2	71.0	4.8	10.0	48.7	169.5	322.7	488.6	5.9	5.8	113.4
3351	Copper rolling and drawing	-	4	3	0.5	5.4	0.4	0.8	4.5	10.4	13.0	23.1	0.2	CC	(D)
3356	Nonferrous rolling and drawing, n.e.c.	E1	8	2	0.2	2.0	0.1	0.2	1.3	4.1	12.6	16.6	0.3	(NA)	(NA)
3357	Nonferrous wire drawing and insulating	-	14	11	5.5	63.6	4.2	8.9	42.8	155.0	297.0	448.9	5.5	5.1	102.0
336	Nonferrous foundries	E1	34	6	0.4	4.0	0.3	0.6	2.8	7.7	9.1	16.7	0.3	0.4	5.3
3369	Nonferrous foundries, n.e.c.	E1	14	2	0.2	1.7	0.1	0.3	1.2	3.9	6.4	10.3	0.1	(NA)	(NA)
339	Miscellaneous primary metal products	E1	23	5	0.3	3.1	0.2	0.4	1.9	5.5	4.7	10.3	0.3	AA	(D)
3398	Metal heat treating	E1	17	4	0.2	2.3	0.2	0.3	1.5	3.8	3.7	7.6	0.3	AA	(D)
34	**Fabricated metal products**	-	**414**	**112**	**15.4**	**178.2**	**12.5**	**23.4**	**120.1**	**298.9**	**276.7**	**576.9**	**10.8**	**8.5**	**115.2**
342	Cutlery, hand tools, and hardware	-	16	4	1.0	9.7	0.8	1.7	7.2	17.5	10.7	28.3	(D)	CC	(D)
3421	Cutlery	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
344	Fabricated structural metal products	-	65	17	6.2	77.7	4.9	9.4	51.4	130.3	136.0	271.6	2.8	1.2	24.3
3441	Fabricated structural metal	-	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	6.0
3442	Metal doors, sash, and trim	E1	13	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	4.1
3443	Fabricated plate work (boiler shops)	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3444	Sheet metal work	E5	26	4	0.3	3.8	0.2	0.4	2.3	7.4	9.0	16.5	0.4	0.2	4.2
345	Screw machine products, bolts, etc.	-	48	13	1.3	15.0	1.1	2.1	10.4	24.7	30.0	54.4	2.0	1.3	18.9
3451	Screw machine products	E2	36	5	0.5	5.6	0.4	0.8	3.8	9.6	5.8	15.2	0.8	CC	(D)
3452	Bolts, nuts, rivets, and washers	-	12	8	0.8	9.4	0.7	1.2	6.5	15.1	24.2	39.3	1.2	CC	(D)
346	Metal forgings and stampings	-	44	19	1.1	12.4	0.9	1.9	8.3	21.7	19.1	40.7	1.3	EE	(D)
3469	Metal stampings, n.e.c.	-	40	15	0.8	9.1	0.7	1.4	6.2	16.9	14.7	31.4	(D)	EE	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
34	**Fabricated metal products**—Con.														
347	Metal services, n.e.c.	E2	182	41	2.9	25.8	2.5	4.5	18.0	46.8	31.5	77.8	2.2	2.4	23.6
3471	Plating and polishing	E2	128	28	2.2	18.9	1.9	3.4	13.5	31.9	15.1	46.9	1.3	EE	(D)
3479	Metal coating and allied services	E1	54	13	0.7	6.9	0.6	1.2	4.5	14.9	16.4	30.9	0.9	BB	(D)
349	Miscellaneous fabricated metal products	–	52	18	2.9	37.3	2.2	3.8	24.8	57.5	49.0	103.4	2.1	1.4	19.6
3494	Valves and pipe fittings	–	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3496	Miscellaneous fabricated wire products	–	12	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3499	Fabricated metal products, n.e.c.	E1	29	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	7.8
35	**Machinery, except electrical**	–	**319**	**60**	**8.7**	**120.0**	**5.8**	**11.4**	**67.5**	**215.0**	**110.6**	**317.7**	**12.9**	**9.0**	**138.1**
354	Metalworking machinery	–	111	25	4.4	62.4	3.1	6.2	37.8	110.0	44.6	146.9	6.6	3.8	55.9
3541	Machine tools, metal cutting types	–	20	7	2.4	35.8	1.6	3.3	20.6	61.9	25.9	81.9	(D)	EE	(D)
3544	Special dies, tools, jigs, and fixtures	E2	59	7	0.6	7.8	0.5	0.8	5.4	12.2	5.2	17.2	0.9	CC	(D)
3545	Machine tool accessories	–	22	9	1.3	16.7	0.9	1.8	10.7	32.9	10.1	41.3	1.3	1.1	19.4
355	Special industry machinery	–	40	11	2.0	30.1	1.1	2.1	13.7	51.5	27.1	79.7	2.4	3.4	52.4
3552	Textile machinery	–	25	7	1.5	20.8	0.8	1.7	8.2	40.4	13.4	56.2	(D)	2.3	39.8
3559	Special industry machinery, n.e.c.	–	12	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
356	General industrial machinery	–	30	9	0.8	10.1	0.5	1.0	5.7	23.2	19.2	41.2	2.4	0.8	16.4
3561	Pumps and pumping equipment	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3567	Industrial furnaces and ovens	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3569	General industrial machinery, n.e.c.	–	11	3	0.2	2.1	0.1	0.2	1.1	3.6	2.7	6.2	(D)	BB	(D)
357	Office and computing machines	–	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3573	Electronic computing equipment	–	5	3	0.4	6.3	0.2	0.5	2.7	10.6	7.8	18.3	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E3	106	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	11.6
3599	Machinery, except electrical, n.e.c.	E3	106	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	11.6
36	**Electric and electronic equipment**	–	**67**	**35**	**8.3**	**92.4**	**5.7**	**10.0**	**49.3**	**176.8**	**128.2**	**294.8**	**16.6**	**8.3**	**121.0**
362	Electrical industrial apparatus	E6	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
364	Electric lighting and wiring equipment	–	18	14	3.8	36.7	3.1	5.4	26.3	63.7	71.1	128.1	3.5	3.1	36.5
3643	Current-carrying wiring devices	–	9	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3645	Residential lighting fixtures	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
366	Communication equipment	–	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3662	Radio and TV communication equipment	–	5	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
367	Electronic components and accessories	E1	25	10	1.7	15.5	1.2	2.0	8.0	33.7	20.3	51.0	(D)	EE	(D)
3671	Electron tubes, all types	–	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3674	Semiconductors and related devices	–	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3679	Electronic components, n.e.c.	E2	14	3	0.4	4.4	0.4	0.8	3.2	5.8	4.2	10.0	0.4	AA	(D)
369	Miscellaneous electrical equipment and supplies	–	9	5	0.6	7.5	0.4	0.8	5.0	19.8	15.4	33.3	(D)	1.2	18.0
3699	Electrical equipment and supplies, n.e.c.	–	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
37	**Transportation equipment**	–	**46**	**17**	**EE**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**1.6**	**23.9**
371	Motor vehicles and equipment	–	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3713	Truck and bus bodies	–	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories	–	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
373	Ship and boat building and repairing	–	30	9	1.0	11.0	0.8	1.8	8.3	19.8	17.7	37.5	(D)	0.8	10.9
3731	Ship building and repairing	E1	9	4	0.3	4.5	0.3	0.8	3.3	7.2	5.2	12.4	(D)	0.2	2.7
3732	Boat building and repairing	–	21	5	0.7	6.5	0.6	1.1	5.0	12.7	12.5	25.1	(D)	0.7	8.2

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
38	**Instruments and related products**	-	**48**	**22**	**6.0**	**66.4**	**4.2**	**8.3**	**38.5**	**156.2**	**79.6**	**232.6**	**7.1**	**5.3**	**70.8**
382	Measuring and controlling devices	-	8	5	1.7	20.7	0.9	1.9	9.0	46.0	22.9	68.8	(D)	BB	(D)
3822	Environmental controls	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3825	Instruments to measure electricity	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
384	Medical instruments and supplies	-	17	6	2.3	25.4	1.7	3.5	15.5	67.9	30.6	97.5	4.7	EE	(D)
3841	Surgical and medical instruments	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3842	Surgical appliances and supplies	-	14	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3851	Ophthalmic goods	-	10	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	18.4
3861	Photographic equipment and supplies	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3873	Watches, clocks, and watchcases	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
39	**Miscellaneous manufacturing industries**	-	**1 051**	**274**	**33.3**	**284.7**	**26.0**	**45.4**	**181.1**	679.6	**605.8**	**1 271.6**	**25.4**	**26.8**	**392.8**
391	Jewelry, silverware, and plated ware	-	489	114	14.5	125.7	10.5	18.7	77.3	292.0	311.0	598.6	(D)	FF	(D)
3911	Jewelry, precious metal	-	295	69	9.9	76.3	6.8	12.0	48.0	190.1	189.3	370.2	9.8	6.2	94.8
3914	Silverware and plated ware	-	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3915	Jewelers' materials and lapidary work	E1	186	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
394	Toys and sporting goods	-	21	8	1.8	16.5	1.4	2.0	11.2	47.4	48.5	93.7	(D)	3.5	60.3
3944	Games, toys, and children's vehicles	-	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3949	Sporting and athletic goods, n.e.c.	-	14	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
395	Pens, pencils, office and art supplies	-	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3951	Pens and mechanical pencils	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
396	Costume jewelry and notions	-	329	126	14.2	116.8	11.7	20.4	74.4	268.0	197.6	460.6	(D)	10.4	138.5
3961	Costume jewelry	-	315	119	13.1	105.9	11.0	19.0	69.4	248.8	185.0	428.4	8.5	8.9	117.2
3964	Needles, pins, and fasteners	-	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
399	Miscellaneous manufactures	E3	199	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	15.6
3993	Signs and advertising displays	-	32	13	0.8	6.4	0.7	1.2	4.4	12.1	9.0	20.9	0.2	0.7	8.0
3999	Manufacturing industries, n.e.c.	E5	163	7	0.7	5.6	0.6	0.9	3.6	11.3	9.4	20.7	0.6	0.7	7.0
–	**Administrative and auxiliary**	-	**25**	**12**	**1.4**	**29.7**	-	-	-	-	-	-	-	**(NA)**	**(NA)**

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Fall River, Mass.-R.I., SMSA	-	310	166	22.3	205.4	17.8	32.7	138.0	400.4	341.8	738.6	13.8	25.5	338.8
20	Food and kindred products	E2	37	7	0.6	6.2	0.5	0.9	4.4	22.2	28.8	50.8	1.3	0.9	18.2
22	Textile mill products	-	30	25	4.5	45.5	3.7	7.4	33.3	89.2	86.8	173.7	2.9	4.8	63.5
225	Knitting mills	E1	7	6	0.9	6.5	0.8	1.3	5.5	13.1	4.2	17.0	0.4	0.9	7.8
2253	Knit outerwear mills	-	4	3	0.7	4.7	0.7	1.1	4.2	10.3	2.1	12.1	(D)	(NA)	(NA)
226	Textile finishing, except wool	-	10	9	1.9	21.7	1.5	3.1	16.0	40.4	32.1	72.2	(D)	2.3	31.5
23	Apparel and other textile products	-	94	76	9.3	62.7	8.4	14.3	52.1	104.4	64.8	169.5	1.1	10.3	86.1
2311	Men's and boys' suits and coats	-	9	8	1.9	13.5	1.7	3.1	11.2	30.3	11.8	40.6	0.3	1.2	16.1
232	Men's and boys' furnishings	E2	8	6	1.4	9.5	1.3	2.5	8.3	12.6	5.1	17.8	0.1	1.3	8.9
2329	Men's and boys' clothing, n.e.c.	E4	4	3	0.5	2.9	0.4	0.7	2.2	4.3	3.9	8.2	(D)	(NA)	(NA)
233	Women's and misses' outerwear	E1	49	41	3.9	24.5	3.6	5.7	21.1	32.2	7.6	40.1	0.5	5.0	34.2
2331	Women's and misses' blouses and waists	-	5	5	0.5	3.1	0.5	0.7	2.7	3.8	0.3	4.1	(D)	(NA)	(NA)
2335	Women's and misses' dresses	E3	27	22	1.8	10.9	1.7	2.6	9.2	15.6	4.7	20.6	(D)	4.2	29.1
2337	Women's and misses' suits and coats	-	11	9	1.2	8.1	1.1	1.8	7.0	9.8	2.3	12.1	0.3	0.4	3.1
2339	Women's and misses' outerwear, n.e.c.	E1	6	5	0.4	2.4	0.4	0.6	2.1	3.0	0.4	3.4	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	-	21	14	1.7	12.2	1.4	2.5	9.1	25.4	38.4	65.3	0.1	1.8	18.3
2391	Curtains and draperies	-	13	9	1.3	9.2	1.0	1.9	7.0	18.3	34.5	54.3	0.1	1.3	15.4
27	Printing and publishing	-	19	4	0.6	5.3	0.4	0.6	2.7	11.6	5.7	17.3	0.3	0.6	9.8
30	Rubber and miscellaneous plastics products	E2	10	5	0.5	6.8	0.4	0.9	4.6	10.4	11.8	22.0	1.4	0.6	9.9
3069	Fabricated rubber products, n.e.c.	E2	4	2	0.4	5.0	0.3	0.6	3.4	7.6	9.4	16.8	(D)	(NA)	(NA)
31	Leather and leather products	E3	4	4	0.5	4.2	0.4	0.7	2.3	11.0	9.6	20.4	(D)	(NA)	(NA)
34	Fabricated metal products	-	18	9	1.0	9.2	0.9	1.7	7.7	23.0	17.5	39.3	0.8	0.5	6.1
35	Machinery, except electrical	-	19	6	0.5	4.9	0.3	0.6	2.7	5.6	8.5	14.7	0.3	0.6	9.6
36	Electric and electronic equipment	-	10	5	2.2	34.2	0.9	1.9	11.3	63.4	28.1	90.9	(D)	(NA)	(NA)
37	Transportation equipment	-	10	3	0.8	7.2	0.6	1.2	5.3	15.3	14.6	29.4	(D)	0.5	5.0
373	Ship and boat building and repairing	-	10	3	0.8	7.2	0.6	1.2	5.3	15.3	14.6	29.4	(D)	0.5	5.0
39	Miscellaneous manufacturing industries	E1	13	4	0.4	3.1	0.3	0.6	2.3	6.2	6.8	12.8	(D)	0.3	4.5
	New London-Norwich, Conn.-R.I., SMSA	-	286	108	41.8	575.8	26.6	51.3	305.5	1 081.4	780.7	1 847.4	49.3	29.2	457.4
22	Textile mill products	-	17	13	1.5	15.9	1.3	2.6	11.9	27.8	31.0	58.6	1.8	2.4	33.2
23	Apparel and other textile products	-	16	10	1.3	12.0	0.8	1.4	5.6	27.7	49.2	75.7	0.3	1.2	20.5
26	Paper and allied products	-	13	12	1.3	17.8	1.0	2.1	12.5	38.6	53.8	91.1	3.0	1.2	21.0
2631	Paperboard mills	-	3	3	0.3	6.0	0.3	0.6	4.7	11.3	30.3	41.7	(D)	(NA)	(NA)
264	Miscellaneous converted paper products	-	4	4	0.4	4.4	0.3	0.6	3.0	15.0	10.8	24.5	(D)	(NA)	(NA)
265	Paperboard containers and boxes	-	6	5	0.6	7.4	0.5	1.0	4.7	12.3	12.7	24.9	(D)	0.6	8.6
27	Printing and publishing	-	33	11	1.8	21.7	1.1	2.0	11.7	44.2	15.8	59.7	1.5	1.6	27.2
2711	Newspapers	-	5	3	0.7	6.3	0.3	0.6	3.1	11.7	3.5	15.1	(D)	(NA)	(NA)
275	Commercial printing	-	21	5	0.7	10.0	0.6	1.2	7.4	17.8	8.8	26.5	1.0	0.5	8.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	New London-Norwich, Conn.-R.I., SMSA—Con.													
28	Chemicals and allied products	–	12	6	4.4	59.6	2.7	5.8	40.0	246.9	183.2	423.8	15.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E2	11	4	0.4	3.1	0.3	0.6	2.4	6.2	9.2	16.9	(D)	0.4	6.2
33	Primary metal industries	–	8	6	1.2	13.8	1.0	2.1	11.0	22.7	49.8	70.5	0.9	1.3	17.0
35	Machinery, except electrical	–	30	6	1.5	23.6	0.9	1.9	11.2	57.5	30.4	83.6	3.2	1.8	38.7
36	Electric and electronic equipment	–	16	8	1.9	16.0	1.5	2.9	10.5	30.7	34.6	66.3	1.4	0.6	6.7
367	Electronic components and accessories	–	7	5	0.6	5.7	0.5	1.0	3.6	9.8	9.0	19.2	(D)	(NA)	(NA)
	Providence-Warwick-Pawtucket, R.I.-Mass., SMSA	–	**3 320**	**1 026**	**140.0**	**1 494.4**	**107.3**	**202.2**	**947.1**	**3 040.4**	**3 161.2**	**6 158.6**	**173.3**	**131.9**	**1 959.9**
20	Food and kindred products	E1	147	36	3.6	41.1	2.3	4.2	21.8	83.4	178.8	261.4	4.3	(NA)	(NA)
202	Dairy products	E5	25	8	0.5	5.2	0.3	0.5	2.2	7.0	37.7	44.7	1.1	1.0	18.8
2026	Fluid milk	E5	17	7	0.4	4.6	0.2	0.4	1.8	5.7	32.7	38.4	1.1	1.0	17.2
205	Bakery products	–	39	8	1.0	13.1	0.4	0.7	3.8	25.5	27.0	52.5	0.6	(NA)	(NA)
208	Beverages	E1	19	5	0.7	9.2	0.5	0.8	6.2	19.3	39.9	59.0	0.6	(NA)	(NA)
209	Miscellaneous foods and kindred products	E1	28	7	0.4	3.8	0.4	0.6	2.5	10.0	22.2	32.2	0.7	0.3	4.0
22	Textile mill products	–	190	115	11.7	107.0	9.9	20.2	78.3	194.0	222.2	415.8	13.2	15.4	173.5
2221	Weaving mills, manmade fiber and silk	E1	15	10	0.7	7.0	0.6	1.3	5.8	11.3	14.2	25.9	(D)	1.4	20.1
2231	Weaving and finishing mills, wool	E1	17	10	1.0	9.8	1.0	2.3	8.8	20.8	19.2	40.3	0.6	(NA)	(NA)
2241	Narrow fabric mills	–	41	27	3.1	26.7	2.8	5.4	20.2	48.5	54.5	102.9	2.6	(NA)	(NA)
225	Knitting mills	–	12	8	1.0	8.9	0.9	1.6	7.0	13.2	28.4	41.7	1.4	(NA)	(NA)
2257	Circular knit fabric mills	–	7	3	0.8	6.9	0.7	1.3	5.5	9.5	21.4	31.0	(D)	2.0	24.0
226	Textile finishing, except wool	E1	31	21	1.9	20.6	1.4	2.9	12.4	27.5	22.2	50.0	2.4	(NA)	(NA)
2269	Finishing plants, n.e.c.	E2	9	7	0.5	4.5	0.4	0.9	3.4	8.3	10.0	18.2	0.8	0.9	8.2
228	Yarn and thread mills	–	19	11	1.5	13.9	1.3	2.8	10.2	31.2	41.2	72.2	1.4	1.8	16.3
229	Miscellaneous textile goods	–	47	22	2.0	17.3	1.6	3.3	11.7	37.0	36.1	72.0	2.3	(NA)	(NA)
2292	Lace goods	–	17	5	0.5	4.0	0.4	0.9	3.1	6.6	2.2	8.8	(D)	(NA)	(NA)
2298	Cordage and twine	–	7	4	0.5	3.5	0.4	0.7	2.6	8.9	5.6	14.1	0.2	(NA)	(NA)
2299	Textile goods, n.e.c.	E4	14	8	0.4	2.7	0.4	0.7	1.9	5.1	3.9	8.8	1.1	(NA)	(NA)
23	Apparel and other textile products	E2	65	31	2.9	21.9	2.5	4.3	16.0	49.7	38.8	87.1	0.7	(NA)	(NA)
233	Women's and misses' outerwear	E4	22	15	0.9	6.1	0.8	1.3	5.0	11.9	3.3	15.2	0.1	1.0	5.0
2335	Women's and misses' dresses	E4	15	9	0.5	3.0	0.5	0.8	2.5	7.7	2.0	9.7	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	E1	30	6	0.5	5.0	0.4	0.8	3.3	13.7	10.9	24.1	0.3	(NA)	(NA)
24	Lumber and wood products	E1	47	7	0.6	5.7	0.5	1.0	4.4	10.5	7.2	17.5	0.4	(NA)	(NA)
26	Paper and allied products	–	61	31	2.9	30.6	2.3	4.5	20.7	58.1	74.8	132.8	2.8	(NA)	(NA)
264	Miscellaneous converted paper products	–	28	11	0.9	11.8	0.7	1.5	7.7	21.6	39.6	60.3	0.8	(NA)	(NA)
2641	Paper coating and glazing	–	10	5	0.6	7.8	0.5	1.0	5.4	13.6	29.3	42.1	0.5	(NA)	(NA)
2652	Setup paperboard boxes	E1	17	12	0.8	5.6	0.6	1.1	3.6	10.7	5.0	15.7	0.4	(NA)	(NA)
2653	Corrugated and solid fiber boxes	–	8	3	0.3	3.2	0.2	0.4	1.9	6.6	8.9	16.1	0.2	(NA)	(NA)
27	Printing and publishing	–	215	46	5.2	68.4	3.4	6.4	40.1	132.0	77.3	208.6	7.0	5.5	104.6
2711	Newspapers	–	25	8	1.7	25.2	0.7	1.2	10.5	47.8	16.0	63.8	2.1	(NA)	(NA)
275	Commercial printing	E1	142	25	2.3	30.2	1.9	3.6	21.5	55.2	48.4	103.5	4.2	1.9	34.2

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Providence-Warwick-Pawtucket, R.I.-Mass., SMSA—Con.														
27	Printing and publishing—Con.														
275	Commercial printing—Con.														
2752	Commercial printing, lithographic	E1	55	14	1.0	12.6	0.8	1.5	8.2	26.1	17.3	43.3	(D)	(NA)	(NA)
2753	Engraving and plate printing	E1	10	2	0.3	2.9	0.3	0.5	2.1	7.0	2.5	9.4	(D)	(NA)	(NA)
279	Printing trade services	–	18	4	0.3	4.4	0.2	0.4	2.9	7.4	1.7	9.0	0.3	(NA)	(NA)
28	Chemicals and allied products	–	69	19	3.0	39.3	2.1	3.9	20.3	76.1	144.8	218.3	11.3	(NA)	(NA)
284	Soaps, cleaners, and toilet goods	–	16	6	0.8	8.4	0.7	1.4	5.5	16.3	37.9	53.7	2.3	0.9	14.6
30	Rubber and miscellaneous plastics products	–	115	46	5.5	54.6	4.4	8.6	36.6	159.1	132.0	289.5	11.8	6.5	125.8
3079	Miscellaneous plastics products	–	100	39	4.5	45.8	3.7	7.3	31.1	144.8	114.7	257.9	11.4	4.3	102.5
31	Leather and leather products	–	26	16	2.9	21.8	2.5	4.2	14.2	46.2	53.7	104.5	1.4	(NA)	(NA)
32	Stone, clay, and glass products	–	55	20	2.5	33.9	1.9	3.9	23.9	80.3	45.9	126.5	5.4	2.5	46.7
322	Glass and glassware, pressed or blown	–	4	3	1.3	17.6	1.1	2.4	14.9	43.8	21.0	65.9	2.8	(NA)	(NA)
327	Concrete, gypsum, and plaster products	E1	30	10	0.5	6.9	0.3	0.6	4.2	15.5	14.0	29.8	1.4	0.6	12.2
3273	Ready-mixed concrete	E1	9	5	0.3	3.5	0.2	0.3	2.1	8.5	8.6	17.1	1.1	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products	–	10	4	0.5	7.6	0.3	0.6	3.5	16.7	7.6	23.6	(D)	(NA)	(NA)
33	Primary metal industries	–	127	46	9.4	113.7	7.5	15.6	80.6	280.1	649.3	928.3	10.9	10.1	190.9
331	Blast furnace and basic steel products	–	7	4	0.8	12.1	0.6	1.3	10.0	20.3	22.1	41.7	(D)	1.8	34.8
3341	Secondary nonferrous metals	–	11	4	0.3	3.9	0.2	0.3	1.7	44.3	70.3	112.8	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing	–	35	22	7.3	85.7	5.8	12.4	60.7	195.5	538.4	734.9	7.0	6.5	127.5
3351	Copper rolling and drawing	–	6	4	0.6	6.1	0.5	0.9	4.9	12.1	15.2	26.8	(D)	(NA)	(NA)
3356	Nonferrous rolling and drawing, n.e.c.	–	14	6	1.3	17.3	1.1	2.4	12.4	33.8	250.1	290.1	(D)	1.1	26.1
3357	Nonferrous wire drawing and insulating	–	15	12	5.4	62.2	4.3	9.1	43.4	149.6	273.2	418.0	4.3	(NA)	(NA)
3398	Metal heat treating	E1	21	4	0.3	2.5	0.2	0.4	1.6	4.3	3.8	8.1	0.3	(NA)	(NA)
34	Fabricated metal products	–	478	131	16.9	195.9	13.7	26.0	132.2	328.2	304.3	632.5	12.4	10.0	133.7
342	Cutlery, hand tools, and hardware	E1	17	6	1.0	10.2	0.9	1.8	7.6	18.7	11.5	30.4	0.4	(NA)	(NA)
344	Fabricated structural metal products	–	70	18	6.5	81.7	5.1	9.9	54.0	136.2	141.0	281.9	3.2	(NA)	(NA)
3442	Metal doors, sash, and trim	E1	14	4	0.3	3.0	0.2	0.3	1.7	5.3	6.5	11.8	0.1	(NA)	(NA)
3444	Sheet metal work	E5	28	4	0.3	4.0	0.2	0.4	2.5	7.5	9.2	16.8	0.4	(NA)	(NA)
345	Screw machine products, bolts, etc.	–	52	16	1.7	18.3	1.4	2.7	13.1	30.9	33.5	63.9	2.2	(NA)	(NA)
3451	Screw machine products	E1	39	7	0.8	8.5	0.7	1.4	6.3	15.1	9.0	23.7	0.9	0.8	11.5
3452	Bolts, nuts, rivets, and washers	–	13	9	0.9	9.8	0.7	1.3	6.8	15.8	24.5	40.2	1.3	(NA)	(NA)
346	Metal forgings and stampings	–	61	25	1.4	17.5	1.1	2.5	11.1	29.7	28.2	57.3	2.1	1.5	20.8
3469	Metal stampings, n.e.c.	–	56	20	1.1	13.9	0.9	1.9	8.7	24.3	23.5	47.2	2.0	1.3	18.1
347	Metal services, n.e.c.	E2	214	48	3.4	30.3	3.0	5.3	21.2	54.2	39.9	93.5	2.5	2.8	28.5
3471	Plating and polishing	E2	144	32	2.5	21.8	2.2	3.9	15.5	36.6	22.6	59.1	1.5	2.3	23.2
3479	Metal coating and allied services	E1	70	16	0.9	8.5	0.7	1.4	5.7	17.5	17.4	34.4	0.9	0.5	5.3
349	Miscellaneous fabricated metal products	–	57	18	2.9	37.8	2.3	3.9	25.0	57.9	49.7	104.4	2.1	(NA)	(NA)
3494	Valves and pipe fittings	–	8	6	0.6	8.1	0.3	0.6	3.1	14.3	8.7	20.9	0.9	(NA)	(NA)
3499	Fabricated metal products, n.e.c.	E1	33	7	0.7	6.1	0.6	1.1	4.6	11.4	11.9	23.1	0.4	(NA)	(NA)
35	Machinery, except electrical	–	353	66	9.3	127.7	6.3	12.3	72.4	229.5	117.4	338.5	13.6	9.6	147.8
354	Metalworking machinery	–	130	29	4.6	64.5	3.2	6.5	39.2	113.4	46.6	152.2	6.7	3.9	57.6
3541	Machine tools, metal cutting types	–	19	7	2.4	35.8	1.6	3.3	20.6	61.9	25.9	81.9	(D)	(NA)	(NA)
3545	Machine tool accessories	–	26	10	1.3	17.4	0.9	1.9	11.1	33.9	10.5	42.7	1.4	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups end industries with 250 employees or more within SCSA's end SMSA's, except those that would disclose operetions of individual compenies. For definitions of SCSA's and SMSA's, see appendix A. For explenetion of terms, see appendix B]

SIC code	SMSA end industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Weges (million dollars)	Value edded by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Providence-Warwick-Pawtucket, R.I.-Mass., SMSA—Con.														
35	Machinery, except electrical —Con.														
355	Speciel industry machinery	-	42	11	2.4	34.2	1.4	2.6	15.8	61.9	30.5	93.1	2.9	(NA)	(NA)
3552	Textile machinery	-	26	7	1.5	20.9	0.8	1.7	8.2	40.4	13.5	56.3	(D)	(NA)	(NA)
3559	Special industry machinery, n.e.c.	-	13	4	0.9	13.1	0.5	0.9	7.5	21.1	16.7	36.1	(D)	(NA)	(NA)
356	General industrial machinery	-	27	7	0.7	9.2	0.5	1.0	5.3	21.2	18.0	38.1	2.3	(NA)	(NA)
357	Office and computing machines	-	8	4	0.5	7.0	0.3	0.7	3.3	12.3	8.6	20.9	(D)	(NA)	(NA)
3573	Electronic computing equipment	-	4	3	0.4	6.2	0.2	0.5	2.7	10.3	7.5	17.8	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E3	122	10	0.9	9.9	0.7	1.3	7.0	14.7	8.3	22.8	1.0	1.0	13.6
3599	Machinery, except electricel, n.e.c.	E3	122	10	0.9	9.9	0.7	1.3	7.0	14.7	8.3	22.8	1.0	1.0	13.6
36	Electric end electronic equipment	-	69	34	7.0	68.0	5.3	9.4	43.0	135.3	126.5	251.3	16.2	11.3	165.7
364	Electric lighting and wiring equipment	E1	19	13	3.7	35.9	3.0	5.2	25.1	59.4	67.7	120.4	3.1	(NA)	(NA)
3643	Current-carrying wiring devices	-	9	7	3.2	31.7	2.6	4.6	22.6	49.5	58.9	101.8	(D)	(NA)	(NA)
367	Electronic components and accessories	-	30	12	2.4	21.9	1.7	3.0	11.4	51.8	38.5	86.5	(D)	1.8	22.2
3679	Electronic components, n.e.c.	-	19	5	1.1	10.4	0.8	1.7	6.5	23.2	22.5	44.9	1.4	0.6	10.9
369	Miscellaneous electrical equipment end supplies	-	9	6	0.6	7.8	0.4	0.9	5.1	20.2	15.8	34.0	(D)	(NA)	(NA)
373	Ship end boat building and repairing	-	18	5	0.4	4.7	0.3	0.8	3.7	8.1	6.7	14.8	0.4	(NA)	(NA)
38	Instruments and related products	-	57	25	11.9	141.4	9.5	18.5	101.4	282.4	199.4	475.7	29.4	5.9	79.6
384	Medical instruments and supplies	-	17	7	2.4	25.8	1.8	3.5	15.7	69.0	31.3	99.3	4.7	(NA)	(NA)
3851	Ophthalmic goods	-	16	7	1.7	16.4	1.3	2.6	11.2	39.0	21.7	56.8	1.1	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	1 142	321	40.9	369.6	31.5	55.5	224.5	844.9	733.3	1 565.6	29.1	34.8	495.6
391	Jewelry, silverware, end pleted ware	-	553	146	19.2	179.5	13.6	24.8	103.7	390.6	399.2	786.0	15.3	15.7	220.5
3911	Jewelry, precious metal	-	340	91	13.6	120.6	9.1	16.6	67.3	267.5	243.0	502.3	11.6	10.2	145.7
3914	Silverware and plated were	-	16	6	1.1	14.1	0.7	1.3	7.6	27.6	16.3	51.3	0.2	(NA)	(NA)
3915	Jewelers' materials and lapidary work	E1	197	49	4.4	44.8	3.8	6.9	28.8	95.5	139.9	232.4	3.6	(NA)	(NA)
394	Toys and sporting goods	-	20	8	1.8	16.6	1.5	2.0	11.2	47.6	48.6	94.1	0.8	(NA)	(NA)
396	Costume jewelry and notions	-	353	138	16.9	146.0	13.9	24.2	90.2	333.4	238.0	566.7	10.1	13.2	179.0
3961	Costume jewelry	-	339	130	15.7	134.9	13.2	22.8	85.0	314.0	225.3	534.2	9.3	11.7	157.5
3999	Manufacturing industries, n.e.c.	E4	165	9	0.9	8.0	0.7	1.2	5.2	15.6	10.8	26.3	0.6	(NA)	(NA)
--	Administretive end euxiliary	-	27	14	1.5	30.8	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of esteblishments, total employment, and total payroll for centrel administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not avellable. (S) Withheld beceuse estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for smell single-unit companies with up to 20 employees (cutoff varied by industry) were obteined from edministrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry everages to estimate the balance of items shown for these small esteblishments. This technique was also used for a small number of other esteblishments whose reports were not received at time data were tabuleted. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials end value of shipments for industry groups (2- end 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries ere used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Bristol County	-	89	35	4.7	44.7	3.7	7.0	28.5	82.8	86.7	176.1	2.9	5.5	78.3
22	Textile mill products	-	8	6	0.7	6.3	0.6	1.3	4.5	11.1	9.6	20.5	0.2	0.6	5.3
30	Rubber and miscellaneous plastics products	E2	12	6	0.9	8.9	0.6	1.2	5.5	15.7	13.7	29.4	0.8	1.7	20.9
	Kent County	-	361	109	15.5	176.9	11.5	21.2	106.8	372.0	340.3	896.8	14.0	12.9	190.7
22	Textile mill products	E1	34	18	1.5	12.4	1.3	2.4	9.4	21.3	20.5	41.2	1.0	(NA)	(NA)
33	Primary metal industries	-	17	8	0.8	8.3	0.6	1.0	4.8	51.5	42.6	91.1	0.7	1.9	35.2
335	Nonferrous rolling and drawing	-	5	4	0.5	5.3	0.4	0.6	2.9	10.4	16.4	26.7	0.3	0.5	8.1
34	Fabricated metal products	-	45	14	2.5	35.5	1.9	3.2	22.8	59.8	52.9	109.6	1.6	1.4	26.4
344	Fabricated structural metal products	-	16	7	0.6	6.5	0.4	0.8	4.0	18.6	19.3	37.8	0.3	0.5	12.7
349	Miscellaneous fabricated metal products	-	8	5	1.8	26.8	1.4	2.1	17.4	37.6	31.1	65.8	1.1	(NA)	(NA)
35	Machinery, except electrical	-	58	9	1.8	24.8	1.0	2.1	10.5	46.3	18.5	67.5	2.3	2.2	38.1
36	Electric and electronic equipment	E1	12	6	1.9	17.7	1.8	3.2	15.0	30.2	28.0	51.6	(D)	2.0	16.7
38	Instruments and related products	-	9	4	1.3	17.3	0.7	1.5	8.2	37.0	21.4	58.2	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	80	23	1.6	12.6	1.4	2.3	8.2	24.1	39.6	63.1	0.8	0.8	8.1
391	Jewelry, silverware, and plated ware	-	37	11	0.7	6.0	0.6	1.0	4.2	10.3	24.9	35.6	0.5	(NA)	(NA)
3911	Jewelry, precious metal	-	21	7	0.5	4.2	0.4	0.7	3.2	6.8	13.9	21.3	0.2	(NA)	(NA)
396	Costume jewelry and notions	E1	17	6	0.5	3.9	0.4	0.8	2.3	8.1	10.9	18.1	0.1	(NA)	(NA)
3961	Costume jewelry	E1	17	6	0.5	3.9	0.4	0.8	2.3	8.1	10.9	18.1	0.1	(NA)	(NA)
	Newport County	-	84	19	3.7	49.8	2.1	4.0	21.6	99.0	70.6	170.5	4.1	3.5	68.4
37	Transportation equipment	-	13	4	0.6	6.3	0.5	1.0	4.7	11.8	11.0	22.8	0.3	0.5	6.9
373	Ship and boat building and repairing	-	13	4	0.6	6.3	0.5	1.0	4.7	11.8	11.0	22.8	0.3	0.5	6.9
	Providence County	-	2 485	745	91.1	931.0	69.6	130.0	586.2	1 959.8	1 980.2	3 905.4	114.9	91.0	1 362.8
33	Primary metal industries	-	85	27	6.8	81.5	5.5	11.3	58.4	187.2	350.1	530.5	7.5	6.4	113.9
331	Blast furnace and basic steel products	-	4	3	0.7	11.3	0.6	1.2	9.4	19.3	20.5	39.1	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing	-	18	10	5.3	60.1	4.2	8.7	42.6	150.2	279.1	421.5	4.4	4.4	79.3
3357	Nonferrous wire drawing and insulating	-	10	8	4.7	54.6	3.7	8.0	38.1	140.5	265.0	398.0	4.2	(NA)	(NA)
34	Fabricated metal products	E1	357	95	7.7	76.9	6.4	12.2	52.8	135.4	116.9	251.9	7.0	6.8	84.8
342	Cutlery, hand tools, and hardware	-	14	4	1.0	9.5	0.8	1.7	7.0	17.2	10.5	27.8	0.4	(NA)	(NA)
344	Fabricated structural metal products	E3	47	9	0.7	8.7	0.5	1.0	5.3	14.0	16.0	30.5	0.8	0.7	11.6
345	Screw machine products, bolts, etc.	-	41	13	1.3	14.4	1.0	2.0	9.9	23.7	29.3	52.8	1.9	1.3	18.2
3452	Bolts, nuts, rivets, and washers	-	12	8	0.8	9.4	0.7	1.2	6.5	15.1	24.2	39.3	1.2	(NA)	(NA)
346	Metal forgings and stampings	-	38	16	0.9	9.8	0.7	1.5	6.3	17.0	14.5	31.3	1.0	1.0	12.5
3469	Metal stampings, n.e.c.	E1	34	12	0.6	6.5	0.5	1.0	4.2	12.1	10.1	22.1	0.9	(NA)	(NA)
347	Metal services, n.e.c.	E2	175	41	2.9	25.6	2.5	4.5	17.9	46.6	31.3	77.3	2.2	2.3	23.3
3471	Plating and polishing	E2	124	28	2.1	18.8	1.9	3.4	13.4	31.7	15.1	46.7	1.3	(NA)	(NA)
3479	Metal coating and allied services	E1	51	13	0.7	6.8	0.6	1.1	4.4	14.8	16.2	30.6	0.9	(NA)	(NA)
349	Miscellaneous fabricated metal products	E1	38	12	0.9	8.8	0.8	1.6	6.4	16.7	14.9	31.4	0.7	0.6	6.9
3499	Fabricated metal products, n.e.c.	E1	23	7	0.6	5.3	0.5	1.0	4.1	10.2	10.6	20.6	0.4	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Weges (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Providence County—Con.													
35	Machinery, except electrical	E1	229	39	4.5	61.1	3.1	6.0	37.0	105.9	64.3	165.0	6.3	5.0	71.8
354	Metalworking machinery	E1	84	18	2.1	28.5	1.5	3.0	17.8	50.1	21.0	68.1	2.4	1.8	27.4
3541	Machine tools, metal cutting types	E1	16	5	0.5	7.3	0.3	0.6	4.0	11.1	6.1	15.9	0.3	(NA)	(NA)
3545	Machine tool accessories	-	16	7	1.2	15.9	0.8	1.7	10.2	31.6	9.4	39.2	1.3	(NA)	(NA)
355	Special industry machinery	-	29	8	0.9	13.1	0.6	0.9	7.6	18.9	16.9	34.7	0.7	(NA)	(NA)
356	General industrial machinery	-	21	5	0.6	8.0	0.4	0.8	4.5	17.1	14.9	31.1	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	44	21	4.2	41.7	3.0	5.0	23.4	82.9	78.1	157.9	14.1	4.0	59.9
364	Electric lighting and wiring equipment	-	11	7	1.7	17.8	1.2	2.0	9.9	27.9	39.5	67.4	2.1	(NA)	(NA)
367	Electronic components and accessories	-	21	8	1.6	14.9	1.2	1.9	7.7	32.9	19.6	49.5	1.8	(NA)	(NA)
37	Transportation equipment	-	17	8	0.8	8.8	0.7	1.4	6.8	21.5	24.1	44.0	(D)	0.7	12.8
371	Motor vehicles and equipment	-	11	6	0.8	7.6	0.6	1.3	6.1	19.5	22.0	39.8	(D)	(NA)	(NA)
38	Instruments and related products	-	37	17	4.7	48.4	3.4	6.7	29.8	117.0	58.2	172.1	6.2	5.0	66.5
382	Measuring and controlling devices	-	5	3	0.7	7.0	0.4	0.7	2.7	14.0	7.1	20.8	(D)	(NA)	(NA)
384	Medical instruments and supplies	-	14	6	2.3	25.1	1.7	3.5	15.4	67.5	30.5	97.0	4.7	2.1	30.3
3842	Surgical appliances and supplies	-	12	5	1.0	9.8	0.9	1.6	6.9	30.6	15.4	45.3	1.5	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	946	245	31.0	266.2	24.1	42.0	169.0	640.6	556.3	1 184.6	24.4	25.3	378.0
391	Jewelry, silverware, and plated ware	-	448	102	13.7	119.5	9.9	17.7	72.9	281.4	285.6	562.2	12.0	10.3	155.4
3911	Jewelry, precious metal	-	273	62	9.4	72.1	6.4	11.3	44.8	183.4	175.4	348.8	9.6	(NA)	(NA)
3915	Jewelers' materials and lapidary work	E1	170	37	3.4	35.2	2.9	5.3	22.0	75.9	96.4	170.4	2.3	(NA)	(NA)
394	Toys and sporting goods	-	15	7	1.8	16.2	1.4	1.9	11.0	46.9	48.2	93.0	0.8	(NA)	(NA)
396	Costume jewelry and notions	-	308	117	13.2	108.8	10.8	18.8	69.5	250.7	181.3	428.5	9.1	9.7	132.8
3961	Costume jewelry	-	295	111	12.2	98.5	10.2	17.5	64.8	232.7	169.4	398.2	8.3	(NA)	(NA)
3964	Needles, pins, and fasteners	-	12	5	0.9	9.4	0.6	1.1	4.1	16.4	10.7	27.5	(D)	(NA)	(NA)
399	Miscellaneous manufactures	E3	166	15	1.2	10.2	1.0	1.7	6.8	18.9	15.7	34.4	0.6	1.1	12.0
3993	Signs and advertising displays	-	24	11	0.7	5.6	0.6	1.1	4.0	10.1	7.9	17.8	0.2	(NA)	(NA)
--	Administrative and auxiliary	-	20	11	1.4	29.0	-	-	-	-	-	-	-	(NA)	(NA)
	Washington County	-	**108**	**37**	**10.1**	**124.2**	**7.8**	**15.3**	**82.1**	**223.3**	**195.8**	**415.8**	**9.7**	**5.1**	**64.2**
22	Textile mill products	-	18	11	1.8	19.5	1.5	2.9	14.4	35.9	45.1	79.8	2.4	2.3	25.3
226	Textile finishing, except wool	-	6	4	0.8	8.6	0.7	1.3	6.8	13.9	13.7	27.5	0.8	1.0	10.9

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousend dollers or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rether than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimeted data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities and Towns: 1977 and 1972

[Includes cities and towns with 450 employees or more and industry groups and industries with 450 employees or more within cities and towns, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City, town, and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Bristol town	-	**42**	**18**	**1.8**	**19.0**	**1.2**	**2.5**	**11.9**	**33.5**	**26.4**	**59.8**	**1.2**	**2.7**	**32.8**
22	Textile mill products	-	4	4	0.5	4.7	0.5	1.0	3.3	8.6	9.1	17.6	0.1	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	7	4	0.6	5.8	0.3	0.7	3.4	10.5	6.3	16.8	0.4	1.4	15.6
	Central Falls	-	**71**	**32**	**3.9**	**39.1**	**3.1**	**5.8**	**27.2**	**93.3**	**69.9**	**161.7**	**4.8**	**3.7**	**56.1**
22	Textile mill products	-	16	12	1.0	9.8	0.8	1.7	6.8	17.5	23.2	40.4	2.5	0.9	9.1
2241	Narrow fabric mills	-	9	5	0.6	7.2	0.5	1.1	4.7	13.2	16.9	30.0	(D)	(NA)	(NA)
	Coventry town	-	**54**	**10**	**1.7**	**19.6**	**1.3**	**2.3**	**12.2**	**37.9**	**51.6**	**87.2**	**3.3**	**2.1**	**28.4**
22	Textile mill products	-	13	5	0.6	4.8	0.5	0.9	3.6	9.3	7.0	15.7	(D)	1.0	12.8
	Cranston	-	**203**	**59**	**6.8**	**76.0**	**4.6**	**8.7**	**42.8**	**137.1**	**165.8**	**299.2**	**12.2**	**8.5**	**112.0**
20	Food and kindred products	E1	18	5	0.6	7.8	0.5	0.8	6.1	12.7	35.0	47.6	0.4	0.9	19.1
33	Primary metal industries	-	11	3	0.6	6.3	0.5	1.0	5.4	11.1	15.0	25.8	0.8	1.0	24.8
35	Machinery, except electrical	-	22	8	0.7	10.6	0.5	1.2	6.4	21.0	19.0	38.9	3.1	0.6	12.2
39	Miscellaneous manufacturing industries	E1	77	23	1.3	10.9	1.1	1.8	6.6	30.4	22.6	51.8	0.7	1.1	13.1
391	Jewelry, silverware, and plated ware	E1	32	10	0.6	4.5	0.4	0.7	2.4	12.4	13.7	25.0	0.2	(NA)	(NA)
396	Costume jewelry and notions	-	30	12	0.7	5.8	0.6	1.0	3.8	16.9	8.3	25.0	0.4	(NA)	(NA)
3961	Costume jewelry	-	29	12	0.7	5.6	0.6	1.0	3.7	16.5	8.1	24.4	0.4	(NA)	(NA)
	Cumberland town	-	**40**	**22**	**3.0**	**31.2**	**2.5**	**4.9**	**23.2**	**58.9**	**82.6**	**142.2**	**7.5**	**2.9**	**37.9**
22	Textile mill products	-	7	5	1.0	8.8	0.8	1.6	7.3	14.1	28.3	42.6	(D)	(NA)	(NA)
28	Chemicals and allied products	-	4	3	0.5	4.8	0.4	0.8	3.7	9.4	27.1	36.2	(D)	(NA)	(NA)
34	Fabricated metal products	-	6	4	0.6	7.1	0.5	1.0	4.9	13.1	8.8	21.7	0.9	0.6	9.2
345	Screw machine products, bolts, etc.	-	3	3	0.5	5.7	0.4	0.8	4.0	10.1	7.2	17.1	(D)	(NA)	(NA)
	East Greenwich town	-	**33**	**7**	**2.7**	**37.7**	**1.9**	**3.3**	**23.5**	**66.2**	**54.1**	**119.7**	**1.5**	**1.5**	**28.1**
	East Providence	-	**136**	**48**	**8.7**	**80.9**	**5.9**	**10.7**	**52.4**	**169.2**	**165.9**	**325.9**	**8.2**	**7.1**	**99.7**
26	Paper and allied products	-	7	4	0.6	7.4	0.5	1.1	5.0	16.8	17.8	34.9	1.1	0.7	10.6
30	Rubber and miscellaneous plastics products	E1	15	5	0.5	4.6	0.4	0.7	3.0	11.6	13.2	24.8	1.4	(NA)	(NA)
35	Machinery, except electrical	E1	22	6	0.6	10.0	0.4	0.6	6.0	13.6	14.7	27.2	0.3	0.5	6.3
39	Miscellaneous manufacturing industries	-	25	10	4.3	24.7	2.5	4.3	16.0	61.4	49.7	106.5	2.1	1.8	29.0
391	Jewelry, silverware, and plated ware	-	10	4	3.2	14.6	1.8	3.1	10.4	33.7	31.0	61.4	(D)	(NA)	(NA)
396	Costume jewelry and notions	-	9	5	1.0	9.5	0.6	1.1	5.1	26.4	17.8	42.9	(D)	(NA)	(NA)
	Johnston town	-	**147**	**23**	**1.8**	**15.2**	**1.6**	**2.7**	**10.3**	**29.8**	**31.5**	**61.1**	**1.3**	**0.9**	**10.6**
39	Miscellaneous manufacturing industries	E1	82	8	0.9	6.3	0.8	1.3	4.2	11.9	12.8	24.5	0.4	(NA)	(NA)
396	Costume jewelry and notions	-	25	6	0.6	4.0	0.5	0.9	2.7	6.6	7.2	13.7	0.3	(NA)	(NA)
3961	Costume jewelry	-	25	6	0.6	4.0	0.5	0.9	2.7	6.6	7.2	13.7	0.3	(NA)	(NA)
	Lincoln town	-	**71**	**31**	**3.7**	**40.4**	**3.0**	**5.7**	**27.1**	**103.3**	**111.5**	**210.0**	**17.6**	**2.7**	**47.8**
33	Primary metal industries	-	7	4	0.7	8.7	0.4	0.9	5.3	14.9	37.4	51.4	0.6	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities and Towns: 1977 and 1972—Con.

[Includes cities and towns with 450 employees or more and industry groups and industries with 450 employees or more within cities and towns, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City, town, and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Lincoln town—Con.														
39	Miscellaneous manufacturing industries	–	6	4	1.6	14.8	1.3	2.4	10.8	47.5	31.0	77.0	5.0	(NA)	(NA)
	North Providence town	–	**99**	**21**	**2.2**	**20.2**	**1.9**	**3.7**	**15.0**	**41.3**	**30.2**	**70.5**	**1.6**	**4.8**	**64.6**
39	Miscellaneous manufacturing industries	E2	50	13	0.9	6.6	0.8	1.2	4.4	14.4	13.3	27.3	0.3	1.1	19.4
396	Costume jewelry and notions	E1	16	7	0.5	3.3	0.4	0.6	2.2	6.3	6.8	12.9	0.2	(NA)	(NA)
3961	Costume jewelry	E1	16	7	0.5	3.3	0.4	0.6	2.2	6.3	6.8	12.9	0.2	(NA)	(NA)
	North Smithfield town	–	**26**	5	**1.9**	**17.3**	**1.4**	**2.6**	**9.1**	**66.1**	**30.8**	**95.8**	**(D)**	**2.7**	**77.2**
	Pawtucket	–	**277**	**122**	**16.4**	**162.9**	**12.9**	**24.5**	**106.8**	**380.4**	**509.8**	**882.2**	**14.5**	**16.8**	**240.0**
20	Food and kindred products	–	12	5	1.3	14.8	0.8	1.5	7.0	27.3	52.2	79.0	1.1	1.0	10.0
22	Textile mill products	–	40	27	3.0	25.6	2.6	5.1	18.8	45.2	51.0	96.6	4.1	5.3	63.2
2241	Narrow fabric mills	–	13	9	1.4	10.9	1.3	2.5	9.1	17.7	22.5	40.5	1.1	(NA)	(NA)
229	Miscellaneous textile goods	–	11	8	0.9	8.5	0.7	1.4	5.1	18.1	20.1	37.7	1.8	(NA)	(NA)
23	Apparel and other textile products	E1	12	9	0.5	3.8	0.4	0.6	2.4	16.7	12.8	28.6	0.2	(NA)	(NA)
26	Paper and allied products	–	13	9	0.8	7.4	0.6	1.2	5.2	13.6	14.7	29.0	0.4	1.1	10.6
265	Paperboard containers and boxes	–	6	6	0.6	5.9	0.5	1.0	4.4	10.5	10.2	21.3	0.3	(NA)	(NA)
27	Printing and publishing	–	20	9	0.9	8.4	0.6	1.2	5.1	21.1	8.9	29.6	0.5	0.8	11.0
33	Primary metal industries	–	13	6	3.6	42.5	2.8	6.2	29.2	121.8	231.5	347.6	3.6	2.3	48.0
335	Nonferrous rolling and drawing	–	5	4	3.3	39.3	2.6	5.8	27.1	114.9	218.6	328.2	3.5	(NA)	(NA)
3357	Nonferrous wire drawing and insulating	–	5	4	3.3	39.3	2.6	5.8	27.1	114.9	218.6	328.2	3.5	(NA)	(NA)
34	Fabricated metal products	E1	38	11	1.2	11.7	1.0	1.9	7.8	17.0	22.5	39.6	0.9	1.2	13.3
347	Metal services, n.e.c.	E2	17	6	0.7	5.0	0.6	1.1	3.6	7.6	3.3	10.9	0.3	(NA)	(NA)
3471	Plating and polishing	E2	14	4	0.6	4.4	0.5	0.9	3.2	6.5	2.9	9.4	0.3	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	56	25	3.1	26.2	2.6	4.1	18.3	63.4	59.8	122.2	1.5	3.4	54.6
391	Jewelry, silverware, and plated ware	E1	20	9	0.7	6.5	0.6	1.2	4.5	13.3	14.4	27.6	0.3	(NA)	(NA)
3915	Jewelers' materials and lapidary work	E1	9	3	0.5	4.2	0.4	0.8	2.9	8.8	10.2	18.9	0.1	(NA)	(NA)
396	Costume jewelry and notions	–	18	11	1.1	8.2	0.9	1.5	6.0	26.1	17.1	42.8	0.9	(NA)	(NA)
3961	Costume jewelry	–	17	11	1.0	8.0	0.9	1.5	5.8	25.8	16.7	42.0	0.9	(NA)	(NA)
	Providence	–	**1 177**	**297**	**35.5**	**375.3**	**26.6**	**49.2**	**221.4**	**736.2**	**637.4**	**1 369.6**	**32.5**	**35.0**	**526.5**
22	Textile mill products	–	14	7	1.0	9.6	0.8	1.8	6.8	24.4	31.9	56.1	0.4	0.8	9.2
26	Paper and allied products	E1	18	8	0.6	5.6	0.4	0.8	3.7	8.6	10.2	18.7	0.6	(NA)	(NA)
27	Printing and publishing	–	87	17	2.7	42.2	1.7	3.0	23.7	71.5	48.5	120.1	4.9	3.4	67.6
275	Commercial printing	E1	52	9	1.1	16.8	0.9	1.8	12.5	24.5	30.1	54.8	3.0	(NA)	(NA)
2752	Commercial printing, lithographic	E3	24	6	0.5	5.5	0.4	0.7	3.7	8.6	6.4	15.3	0.3	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	23	8	0.5	4.8	0.4	0.8	3.4	12.8	7.8	20.5	0.7	0.6	5.7
34	Fabricated metal products	E1	189	50	3.8	37.3	3.2	6.2	26.0	65.3	47.0	112.6	2.8	3.4	38.8
346	Metal forgings and stampings	–	20	11	0.6	7.2	0.5	1.1	4.7	12.2	11.1	23.2	0.6	(NA)	(NA)
347	Metal services, n.e.c.	E4	111	20	1.3	11.3	1.1	2.0	7.9	20.4	10.2	30.5	0.9	(NA)	(NA)
3471	Plating and polishing	E3	77	14	0.9	8.8	0.8	1.5	6.2	16.4	7.7	24.1	0.7	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities and Towns: 1977 and 1972—Con.

[Includes cities and towns with 450 employees or more and industry groups and industries with 450 employees or more within cities and towns, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City, town, and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Providence—Con.													
34	Fabricated metal products—Con.													
349	Miscellaneous fabricated metal products	E1	18	8	0.5	4.9	0.4	0.9	3.4	8.7	5.6	14.2	0.3	(NA)	(NA)
35	Machinery, except electrical	E1	76	8	1.4	18.8	1.0	2.0	12.0	32.0	13.8	44.5	1.2	1.3	20.1
354	Metalworking machinery	–	38	6	1.1	15.1	0.8	1.5	9.6	25.6	10.3	34.6	0.9	(NA)	(NA)
36	Electric and electronic equipment	–	19	11	2.5	26.0	1.8	3.2	16.2	44.3	49.0	93.3	2.6	2.5	40.6
364	Electric lighting and wiring equipment	–	7	5	1.5	16.0	1.0	1.7	8.8	23.4	35.8	58.8	(D)	(NA)	(NA)
367	Electronic components and accessories	E2	9	4	0.6	4.6	0.5	0.8	3.2	6.6	5.1	12.0	0.6	(NA)	(NA)
38	Instruments and related products	–	15	7	2.6	27.6	1.9	3.8	17.5	65.4	33.0	96.6	(D)	2.8	39.1
39	Miscellaneous manufacturing industries	–	601	149	17.6	165.0	13.9	24.9	100.8	373.5	337.0	709.6	13.5	15.7	226.0
391	Jewelry, silverware, and plated ware	–	313	71	8.4	87.5	6.4	11.6	51.8	208.7	213.4	422.0	9.5	(NA)	(NA)
3911	Jewelry, precious metal	–	193	45	5.6	55.3	4.3	7.8	33.3	142.9	135.4	272.4	7.9	(NA)	(NA)
3915	Jewelers' materials and lapidary work	E1	117	24	2.0	20.9	1.7	3.0	12.9	44.7	64.6	108.2	1.6	(NA)	(NA)
396	Costume jewelry and notions	–	190	67	8.5	71.5	7.0	12.3	45.5	153.5	114.7	267.1	3.6	(NA)	(NA)
3961	Costume jewelry	–	180	61	7.5	61.7	6.3	11.0	41.0	136.3	103.5	238.1	2.9	(NA)	(NA)
3964	Needles, pins, and fasteners	–	9	5	0.9	8.9	0.6	1.1	3.9	15.6	10.1	26.1	(D)	(NA)	(NA)
399	Miscellaneous manufactures	E4	86	7	0.5	4.2	0.4	0.7	2.6	7.0	6.5	13.6	0.2	(NA)	(NA)
--	Administrative and auxiliary	–	8	5	0.9	19.4	–	–	–	–	–	–	–	(NA)	(NA)
	Smithfield town	–	**70**	**17**	**1.5**	**18.6**	**1.2**	**2.2**	**11.9**	**40.9**	**18.9**	**59.4**	**1.8**	**1.3**	**22.9**
35	Machinery, except electrical	E1	16	6	0.6	8.4	0.4	0.8	4.8	15.1	4.5	19.3	0.6	(NA)	(NA)
	Warren town	–	36	**13**	**2.6**	**22.3**	**2.2**	**3.9**	**14.7**	**42.2**	**56.4**	**105.7**	**1.6**	**2.3**	**39.4**
	Warwick	–	**194**	**60**	**7.8**	**87.3**	**5.7**	**10.9**	**51.0**	**207.8**	**172.1**	**368.5**	**7.1**	**6.6**	**100.1**
34	Fabricated metal products	E1	32	9	0.7	9.8	0.4	0.8	4.4	17.8	11.1	26.7	0.8	1.0	16.3
35	Machinery, except electrical	–	32	5	1.6	21.5	0.8	1.7	8.3	40.9	15.8	59.5	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	52	17	1.2	10.1	1.0	1.8	6.5	19.3	35.6	54.4	0.7	(NA)	(NA)
391	Jewelry, silverware, and plated ware	–	27	10	0.6	5.5	0.6	0.9	4.0	9.4	24.2	34.0	0.5	(NA)	(NA)
3911	Jewelry, precious metal	–	14	7	0.5	3.9	0.4	0.7	3.0	6.3	13.4	20.4	0.2	(NA)	(NA)
396	Costume jewelry and notions	E1	11	5	0.5	3.7	0.4	0.7	2.1	7.5	10.3	17.0	0.1	(NA)	(NA)
3961	Costume jewelry	E1	11	5	0.5	3.7	0.4	0.7	2.1	7.5	10.3	17.0	0.1	(NA)	(NA)
	Westerly town	–	**27**	**11**	**1.3**	**14.0**	**1.0**	**2.0**	**9.7**	**25.6**	**29.4**	**54.2**	**1.8**	**(D)**	**(D)**
22	Textile mill products	–	5	5	0.8	9.5	0.7	1.3	6.8	14.9	22.0	36.6	1.5	(NA)	(NA)
	West Warwick town	–	**75**	**30**	**3.1**	**29.0**	**2.3**	**4.4**	**18.3**	**55.7**	**56.9**	**111.7**	**1.8**	**2.6**	**34.7**
22	Textile mill products	E2	14	9	0.7	6.0	0.6	1.2	4.7	9.3	8.7	18.0	0.4	0.6	7.7
	Woonsocket	–	**126**	**56**	**5.2**	**46.9**	**4.5**	**8.3**	**34.5**	**91.9**	**96.5**	**185.7**	**5.4**	**5.8**	**59.6**
22	Textile mill products	E2	32	21	1.1	9.3	0.9	1.8	7.1	16.4	14.5	30.8	0.9	1.8	18.7
23	Apparel and other textile products	E5	14	11	1.0	7.1	0.9	1.5	5.4	12.2	11.0	23.2	0.2	1.2	9.1
30	Rubber and miscellaneous plastics products	–	6	4	0.6	6.4	0.5	1.1	4.6	12.8	13.3	25.2	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	–	6	4	0.6	6.4	0.5	1.1	4.6	12.8	13.3	25.2	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	11	5	0.5	3.6	0.4	0.8	2.7	16.2	17.2	31.9	0.5	0.6	9.3

Note: "City" or "town" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
RHODE ISLAND	3107	154	-	200	69	52	36	57	206	67	2	110	24	50	110	414	319	67	46	48	1051	25
1 TO 4 EMPLOYEES	1308	78	-	38	16	35	21	11	103	27	-	25	6	18	36	159	139	16	16	17	542	5
5 TO 9 EMPLOYEES	448	24	-	21	7	3	3	6	32	11	-	25	2	10	21	68	63	9	7	5	128	3
10 TO 19 EMPLOYEES	406	15	-	21	13	7	4	10	26	10	1	18	1	4	15	75	57	7	6	4	107	5
20 TO 49 EMPLOYEES	455	21	-	48	15	6	5	16	23	6	-	16	10	8	14	67	33	11	7	6	138	5
50 TO 99 EMPLOYEES	233	9	-	35	10	-	2	6	13	4	1	13	1	4	9	24	15	10	5	4	64	4
100 TO 249 EMPLOYEES	163	4	-	27	7	1	-	7	6	6	-	10	2	2	6	15	8	7	3	4	46	2
250 TO 499 EMPLOYEES	56	3	-	7	-	-	-	1	2	1	-	2	1	3	5	3	1	2	2	4	19	-
500 TO 999 EMPLOYEES	25	-	-	3	1	-	1	-	-	2	-	1	-	1	2	1	1	3	-	3	5	1
1000 TO 2499 EMPLOYEES	12	-	-	-	-	-	-	-	1	-	-	-	1	-	2	1	2	2	-	1	2	-
2500 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
BRISTOL COUNTY	89	10	-	8	5	1	2	1	3	3	-	12	2	2	3	6	16	1	8	-	6	-
1 TO 19 EMPLOYEES	54	8	-	2	3	1	2	-	2	3	-	6	1	1	2	5	10	-	4	-	4	-
20 TO 99 EMPLOYEES	23	2	-	3	2	-	-	1	1	-	-	1	-	1	1	1	5	1	3	-	1	-
100 TO 249 EMPLOYEES	9	-	-	2	-	-	-	-	-	-	-	5	-	-	-	-	1	-	1	-	-	-
250 EMPLOYEES AND OVER	3	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-
KENT COUNTY	361	23	-	34	6	11	5	4	26	9	-	10	-	7	17	45	58	12	4	9	80	1
1 TO 19 EMPLOYEES	252	19	-	16	3	10	4	2	21	6	-	6	-	3	9	31	49	6	4	5	57	1
20 TO 99 EMPLOYEES	75	4	-	15	1	-	-	1	4	-	-	3	-	-	6	11	6	4	-	1	19	-
100 TO 249 EMPLOYEES	22	-	-	3	2	1	-	1	1	2	-	1	-	2	1	-	2	1	-	2	3	-
250 EMPLOYEES AND OVER	12	-	-	-	-	-	1	-	-	1	-	-	-	2	1	3	1	1	-	1	1	-
NEWPORT COUNTY	64	6	-	1	5	2	-	-	9	-	-	2	-	2	3	1	4	6	13	1	8	1
1 TO 19 EMPLOYEES	45	5	-	1	3	1	-	-	8	-	-	1	-	2	2	-	4	2	9	-	7	-
20 TO 99 EMPLOYEES	11	1	-	-	2	1	-	-	1	-	-	-	-	-	-	-	-	2	1	1	1	1
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	2	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-
PROVIDENCE COUNTY	2485	103	-	139	51	31	28	49	165	48	2	81	21	32	85	357	229	44	17	37	946	20
1 TO 19 EMPLOYEES	1740	76	-	54	26	26	21	24	129	34	1	50	7	20	58	262	190	23	9	20	701	9
20 TO 99 EMPLOYEES	553	20	-	61	19	5	7	19	28	8	1	25	11	10	15	79	32	11	7	8	179	8
100 TO 249 EMPLOYEES	120	4	-	17	5	-	-	5	5	4	-	3	2	-	5	14	5	5	-	2	42	2
250 EMPLOYEES AND OVER	72	3	-	7	1	-	-	1	3	2	-	3	1	2	7	2	2	5	1	7	24	1
WASHINGTON COUNTY	108	12	-	18	2	7	1	3	3	7	-	5	1	7	2	5	12	4	4	1	11	3
1 TO 19 EMPLOYEES	71	9	-	7	1	7	1	1	1	5	-	5	1	6	1	4	6	1	3	1	8	3
20 TO 99 EMPLOYEES	26	3	-	4	1	-	-	1	2	2	-	-	-	1	1	-	5	3	1	-	2	-
100 TO 249 EMPLOYEES	7	-	-	5	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	4	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities and towns are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

South Carolina

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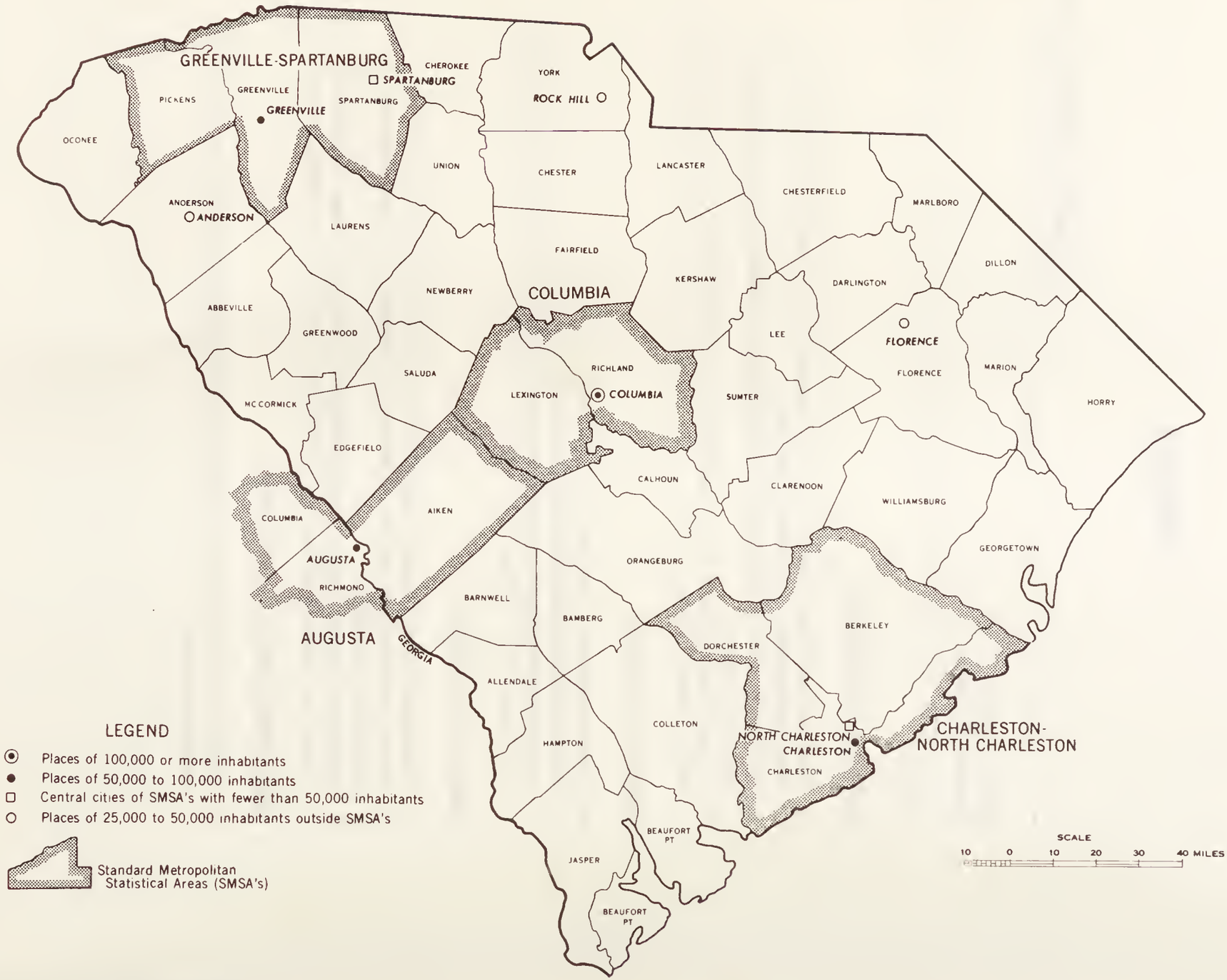
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EMPLOYMENT SIZE CLASS STATISTICS

9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 23

SOUTH CAROLINA



LEGEND

- ◉ Places of 100,000 or more inhabitants
- ● Places of 50,000 to 100,000 inhabitants
- □ Central cities of SMSA's with fewer than 50,000 inhabitants
- ○ Places of 25,000 to 50,000 inhabitants outside SMSA's

Standard Metropolitan Statistical Areas (SMSA's)

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 374.2 thousand persons were employed in South Carolina's manufacturing establishments. This figure represented an increase of 8 percent from the 1972 figure of 345.1 thousand workers.

The total value added by manufacture for the State amounted to $8,186 million in 1977, an increase of approximately 65 percent from the 1972 figure of $4,966 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were textile mill products; apparel and other textile products; chemical and allied products; and machinery, except electrical. They accounted for approximately 65 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 68 percent of the State's employment.

The most important counties in the State ranked by employment were Greenville, Spartanburg, Anderson, and Aiken. They accounted for approximately 35 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 35 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 2 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
South Carolina:						
1977	374.2	3,804.9	365.2	3,663.9	9.0	141.0
1972	345.1	2,344.5	337.9	2,265.4	7.2	79.1
1967	304.3	1,502.2	298.2	1,452.4	6.1	49.8
1963	261.6	1,049.3	258.5	1,030.8	3.2	18.5
STANDARD METROPOLITAN STATISTICAL AREAS						
Augusta, Ga.-S.C.:						
1977	34.7	428.0	33.4	410.1	1.3	17.9
1972	30.4	250.1	29.8	243.8	.6	6.3
1967	29.3	181.1	28.7	176.9	.6	4.2
1963	25.2	135.6	24.6	132.0	.6	3.6
Charleston-North Charleston:						
1977	17.6	205.8	17.4	203.1	.2	2.7
1972	15.2	114.4	15.1	112.7	.1	1.7
Columbia:						
1977	24.9	277.7	(D)	(D)	(D)	(D)
1972	21.6	155.2	(D)	(D)	(D)	(D)
1967	18.1	87.9	(D)	(D)	(D)	(D)
1963	14.5	56.7	(D)	(D)	(D)	(D)
Greenville-Spartanburg:						
1977	104.8	1,071.9	100.1	994.8	4.7	77.1
1972	98.2	682.0	94.1	634.3	4.1	47.7

(D) Withheld to avoid disclosing operations of individual companies.
[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers							Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
	SOUTH CAROLINA														
1977 CENSUS.	4 229	1 560	374.2	3 804.9	299.8	594.0	2 640.3	8 186.1	10 855.2	18 882.4	788.6	1.91	100	100	19 596.9
1976 ASM....	(NA)	(NA)	371.3	3 406.2	299.2	591.6	2 382.5	7 163.9	9 601.3	16 601.1	868.0	1.98	99	96	18 753.0
1975 ASM....	(NA)	(NA)	340.0	2 835.8	270.7	513.7	1 930.7	5 933.9	7 788.2	13 715.0	807.0	1.86	91	94	18 302.2
1974 ASM....	(NA)	(NA)	368.1	2 850.7	295.6	581.5	1 993.2	6 374.0	7 992.1	14 037.1	848.6	1.85	98	102	19 844.8
1973 ASM....	(NA)	(NA)	365.6	2 627.4	299.2	606.2	1 884.8	5 853.1	6 682.8	12 472.1	595.9	1.84	98	102	19 897.9
1972 CENSUS.	3 719	1 441	345.1	2 344.5	282.7	581.6	1 679.4	4 965.6	5 795.3	10 721.1	506.8	1.81	92	98	19 028.7
1971 ASM....	(NA)	(NA)	324.4	2 026.6	264.5	535.5	1 448.7	4 234.5	4 801.3	9 011.3	499.3	1.77	87	94	18 363.1
1970 ASM....	(NA)	(NA)	323.8	1 924.0	262.6	534.9	1 366.9	3 767.7	4 288.2	8 029.4	370.5	1.68	87	99	19 217.2
1969 ASM....	(NA)	(NA)	338.1	1 891.5	278.0	570.5	1 377.4	3 672.1	4 236.6	7 847.3	358.9	1.69	90	103	20 035.5
1968 ASM....	(NA)	(NA)	319.7	1 698.0	265.7	553.5	1 255.6	3 394.0	3 852.9	7 150.9	401.0	1.64	85	100	19 527.6
1967 CENSUS.	3 465	1 251	304.3	1 502.2	253.8	523.0	1 106.6	3 030.3	3 448.5	6 440.7	416.6	1.57	81	99	19 323.2
1966 ASM....	(NA)	(NA)	297.7	1 408.7	248.8	529.4	1 053.8	2 979.6	3 474.9	6 385.8	400.2	1.56	80	98	19 024.5
1965 ASM....	(NA)	(NA)	283.7	1 277.8	237.0	504.2	960.3	2 777.6	3 103.8	5 804.5	282.9	1.58	76	92	18 010.2
1964 ASM....	(NA)	(NA)	270.0	1 150.4	227.9	477.6	869.8	2 387.1	2 859.7	5 232.9	228.0	1.56	72	89	17 268.5
1963 CENSUS.	3 057	1 076	261.6	1 049.3	221.9	455.3	797.2	2 111.1	(NA)	(NA)	179.8	1.54	70	87	16 958.4
	GREENVILLE-SPARTANBURG SMSA														
1977 CENSUS.	983	428	104.8	1 071.9	81.2	161.6	715.1	2 129.7	3 003.8	5 086.0	212.0	.54	100	100	19 596.9
1976 ASM....	(NA)	(NA)	104.9	969.7	82.0	159.9	648.6	1 921.5	2 645.1	4 546.9	236.3	.56	100	96	18 753.0
1975 ASM....	(NA)	(NA)	98.3	818.7	76.1	138.9	526.4	1 657.7	2 051.6	3 682.0	178.3	.54	94	94	18 302.2
1974 ASM....	(NA)	(NA)	105.6	837.0	82.4	161.6	552.9	1 799.5	2 162.0	3 886.0	193.9	.53	101	102	19 844.8
1973 ASM....	(NA)	(NA)	105.1	767.8	83.3	171.6	529.8	1 792.7	1 899.0	3 671.8	145.1	.53	100	102	19 897.9
1972 CENSUS.	837	398	98.2	682.0	77.7	162.0	464.2	1 458.1	1 676.9	3 096.5	194.7	.52	94	98	19 028.7

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed anually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	SOUTH CAROLINA								
1977 CENSUS	10 169	80	1 981	4.44	57	78	21 878	46	13.78
1976 ASM	9 174	81	1 977	4.03	58	78	19 294	48	12.11
1975 ASM	8 341	80	1 898	3.76	57	77	17 453	48	11.55
1974 ASM	7 744	80	1 967	3.43	57	77	17 316	45	10.96
1973 ASM	7 187	82	2 026	3.11	54	75	16 010	45	9.66
1972 CENSUS	6 794	82	2 057	2.89	54	76	14 389	47	8.54
1971 ASM	6 247	82	2 025	2.71	53	76	13 053	48	7.91
1970 ASM	5 942	81	2 037	2.56	53	77	11 636	51	7.04
1969 ASM	5 594	82	2 052	2.41	54	78	10 861	52	6.44
1968 ASM	5 311	83	2 083	2.27	54	78	10 616	50	6.13
1967 CENSUS	4 937	83	2 061	2.12	54	77	9 958	50	5.79
1966 ASM	4 732	84	2 128	1.99	54	76	10 009	47	5.63
1965 ASM	4 504	84	2 127	1.90	53	75	9 791	46	5.51
1964 ASM	4 261	84	2 096	1.82	55	77	8 841	48	5.00
1963 CENSUS	4 011	85	2 052	1.75	(NA)	(NA)	8 070	50	4.64
	GREENVILLE-SPARTANBURG SMSA								
1977 CENSUS	10 227	77	1 990	4.42	59	80	20 319	50	13.18
1976 ASM	9 244	78	1 950	4.06	58	80	18 317	50	12.02
1975 ASM	8 329	77	1 825	3.79	56	78	16 864	49	11.93
1974 ASM	7 926	78	1 961	3.42	56	77	17 041	47	11.14
1973 ASM	7 305	79	2 060	3.09	52	73	17 057	43	10.45
1972 CENSUS	6 945	79	2 085	2.87	54	76	14 848	47	9.00

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	4 229	3 719
With 1 to 19 employees	do	2 689	2 278
With 20 to 99 employees	do	785	689
With 100 employees or more	do	795	752
All employees, average for year[1]	1,000	374.2	345.1
Payroll for year, all employees[1]	mil. dollars	3 604.9	2 344.5
Production workers:			
Average for year	1,000	299.8	262.7
March	do	294.7	277.2
May	do	299.7	279.4
August	do	302.3	265.4
November	do	302.2	286.9
Hours	millions	594.0	581.8
January to March	do	145.3	142.7
April to June	do	152.7	145.9
July to September	do	145.8	142.6
October to December	do	150.3	150.4
Wages	mil. dollars	2 640.3	1 679.4
Cost of materials, etc.[2]	do	10 855.2	5 795.3
Materials, parts, containers, etc., consumed	do	9 491.4	5 149.5
Resales	do	386.8	216.5
Fuels consumed	do	320.2	99.9
Purchased electric energy	do	334.4	120.5
Contract work	do	322.5	206.9
Value of shipments, including resales[2]	do	18 882.4	10 721.1
Value of resales	do	473.1	272.0
Value added by manufacture	do	6 186.1	4 965.6
Manufacturers' inventories:			
Beginning of year	do	2 352.8	1 364.2
Finished products	do	838.3	521.0
Work in process	do	683.5	410.1
Materials, supplies, fuel, etc.	do	832.9	433.1
End of year	do	2 613.5	1 420.7
Finished products	do	900.6	506.0
Work in process	do	763.7	446.4
Materials, supplies, fuel, etc.	do	929.2	468.3
Capital expenditures for plant and equipment	do	831.4	535.0
New capital expenditures	do	788.6	508.8
New buildings and other structures	do	135.4	106.9
New machinery and equipment	do	653.2	400.0
Used capital expenditures	do	42.7	28.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	8,476.2	1
New capital expenditures	785.1	2
Used capital expenditures	56.0	11
Retirements	222.1	2
End of year	9,095.3	1
Buildings and other structures:		
Beginning of year	1,973.0	1
New capital expenditures	135.1	3
Used capital expenditures	(7.7)	17
Retirements	31.5	3
End of year	2,084.4	1
Machinery and equipment:		
Beginning of year	6,503.3	1
New capital expenditures	650.0	1
Automobiles, trucks, etc., for highway use	13.7	(NA)
Computers and peripheral data processing equip.	32.3	(NA)
All other	555.5	(NA)
New machinery and equipment, n.s.k.	48.5	(NA)
Used capital expenditures	48.3	11
Retirements	190.8	2
End of year	7,010.8	1
Rental payments:		
Total	77.9	5
Buildings and other structures	28.9	11
Machinery and equipment	49.0	3
Depreciation charges during 1977:		
Total	550.7	1
Buildings and other structures	83.8	2
Machinery and equipment	466.9	1
Supplemental labor costs:		
Total	603.6	1
Legal costs	280.6	1
Voluntary costs	323.0	1
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	(31.0)	(A)
Response coverage ratio (percent)	55	(X)
Machinery	335.9	10
Response coverage ratio (percent)	57	(X)
Cost of purchased communication services	(92.5)	(A)
Response coverage ratio (percent)	65	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
(A) Indicates stsndard errors of 100 percent or more. Figures in parentheses hsve stsndard errors of 15 percent or more. (NA) Not avsilable. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publicstion stsndards. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
South Carolina	-	**4 229**	**1 560**	**374.2**	**3 804.9**	**299.8**	**594.0**	**2 840.3**	**8 188.1**	**10 855.2**	**18 882.4**	**788.8**	**345.1**	**4 985.8**
STANDARD METROPOLITAN STATISTICAL AREAS														
Augusta, Ga.-S.C.	-	302	131	34.7	428.0	24.9	50.6	257.7	1 090.5	1 102.3	2 174.7	177.5	30.4	578.2
Portion in South Carolina	E1	95	47	19.2	250.2	13.4	27.2	146.3	611.0	346.6	950.9	15.0	16.2	320.9
Portion in Georgia	-	207	84	15.5	177.8	11.4	23.4	111.5	479.5	755.7	1 223.9	162.5	14.2	257.3
Charleston-North Charleston	-	323	103	17.6	205.8	12.8	24.8	126.5	453.4	612.9	1 042.8	91.8	15.2	263.6
Columbia	-	391	145	24.9	277.7	18.1	35.3	161.1	647.6	702.5	1 324.6	91.2	21.6	315.9
Greenville-Spartanburg	-	983	428	104.8	1 071.9	81.2	161.6	715.1	2 129.7	3 003.8	5 086.0	212.0	98.2	1 458.1
COUNTIES														
Abbeville	-	34	16	5.3	49.5	4.7	9.2	39.8	83.3	161.7	246.5	7.2	5.8	75.3
Aiken	-	95	47	19.2	250.2	13.4	27.2	146.3	611.0	346.6	950.9	15.0	16.2	320.9
Allendale	-	23	9	0.8	6.1	0.7	1.5	4.7	14.3	21.8	36.2	(D)	0.8	7.0
Anderson	-	167	87	24.2	237.9	20.4	41.5	179.6	433.8	541.7	980.4	46.1	22.4	260.9
Bamberg	-	41	15	1.6	12.2	1.4	2.6	9.4	44.2	42.0	86.7	1.7	1.7	20.5
Barnwell	-	21	12	3.1	25.6	2.7	5.2	19.9	56.1	63.3	117.2	3.2	2.3	25.4
Beaufort	E1	48	15	1.4	10.2	1.1	2.0	7.2	17.2	17.3	32.7	3.5	1.0	6.8
Berkeley	-	52	19	3.8	36.7	3.2	5.6	27.0	120.4	105.2	210.1	16.4	2.7	52.0
Calhoun	-	15	5	0.4	2.8	0.3	0.6	1.9	-1.9	45.0	43.2	0.2	0.2	2.0
Charleston	-	209	64	11.7	149.3	7.9	15.8	84.9	291.1	458.5	742.1	68.4	10.3	179.5
Cherokee	-	57	29	6.1	62.4	5.1	10.6	46.6	110.9	194.2	304.8	20.7	6.7	76.8
Chester	-	70	31	7.5	72.5	6.7	13.3	59.8	154.5	180.1	338.8	6.2	6.9	110.4
Chesterfield	-	76	35	5.8	49.8	4.9	9.6	36.6	122.6	210.1	325.8	33.9	5.7	59.9
Clarendon	-	40	13	1.8	13.7	1.6	2.9	9.5	21.5	52.4	80.6	1.7	1.5	15.3
Colleton	-	52	13	2.9	23.9	2.6	4.8	19.0	42.7	40.8	81.7	3.5	2.0	20.9
Darlington	-	83	31	8.5	106.7	6.7	13.7	71.2	223.2	469.2	689.1	34.1	8.6	136.9
Dillon	-	48	18	2.7	22.3	2.2	4.3	15.8	62.5	85.8	146.1	1.8	2.7	34.6
Dorchester	-	62	20	2.2	19.8	1.7	3.4	14.6	41.9	49.2	90.5	7.0	2.2	32.2
Edgefield	-	52	13	2.1	19.1	1.8	3.6	14.0	41.6	70.1	111.7	1.3	1.7	23.6
Fairfield	-	94	8	1.9	15.4	1.6	3.2	11.3	31.4	57.3	88.4	1.0	2.4	18.4
Florence	-	142	56	12.0	122.9	9.7	18.5	86.1	332.7	290.5	617.0	21.6	11.5	175.8
Georgetown	-	71	18	5.2	61.5	4.5	8.5	48.3	126.5	248.0	372.9	18.2	4.7	80.1
Greenville	-	545	237	49.2	504.3	38.0	76.1	339.7	1 110.7	1 406.7	2 491.1	120.2	45.3	720.9
Greenwood	-	102	39	12.1	126.3	9.6	19.5	87.4	235.0	406.8	630.9	26.7	12.1	209.9
Hampton	-	51	10	1.6	19.9	1.3	2.9	14.4	46.0	75.6	120.5	2.5	1.8	32.9
Horry	-	114	29	6.7	51.2	5.8	10.8	39.2	105.6	103.4	212.7	9.8	4.1	38.5
Jasper	E6	17	1	0.1	0.6	0.1	0.1	0.5	1.4	1.0	2.4	0.1	0.5	3.6
Kershaw	-	93	22	7.9	96.7	6.3	12.4	66.2	302.8	312.7	605.0	11.6	7.1	180.3
Lancaster	-	51	17	9.8	89.1	7.9	14.9	64.2	143.0	524.9	657.9	3.1	(D)	(D)
Laurens	-	92	28	9.3	92.4	8.1	16.1	73.7	199.4	191.2	388.8	12.0	9.5	143.8
Lee	-	20	6	0.8	8.2	0.6	1.4	4.7	20.1	46.4	66.8	0.6	(D)	(D)
Lexington	E1	168	65	10.8	116.9	8.6	16.4	76.7	261.5	338.7	589.8	65.5	9.9	157.6
McCormick	-	41	3	0.9	8.2	0.8	1.6	6.7	19.0	31.9	51.0	1.1	0.8	10.8
Marion	-	43	21	5.4	38.5	4.8	9.3	29.9	106.5	94.3	202.9	4.1	4.9	51.2
Marlboro	-	35	19	4.2	35.0	3.5	7.2	27.3	76.5	164.7	242.4	(D)	4.5	48.1
Newberry	-	92	22	5.3	47.6	4.8	9.5	39.8	97.0	138.2	234.0	4.7	4.2	42.1
Oconee	E2	64	23	6.3	52.8	5.2	10.1	42.6	109.5	75.8	188.5	4.3	6.9	87.3
Orangeburg	-	113	37	8.3	80.3	6.8	14.1	56.4	208.5	278.9	480.5	8.3	7.1	117.6
Pickens	-	117	47	17.5	166.6	14.9	29.3	129.4	338.7	481.3	796.0	39.1	14.9	217.6
Richland	-	223	80	14.1	160.8	9.6	18.9	84.4	386.1	363.8	734.7	25.7	11.7	158.3
Saluda	-	43	9	1.4	10.9	1.2	2.2	8.6	23.0	50.4	73.2	(D)	1.0	9.4
Spartanburg	-	321	144	38.2	401.1	28.4	56.2	246.1	680.4	1 115.8	1 799.0	52.7	38.0	519.7
Sumter	-	74	34	8.7	73.6	7.3	14.5	57.0	164.2	256.2	418.7	8.4	7.5	85.1
Union	-	43	20	7.5	70.5	6.4	13.0	54.0	150.6	151.5	298.7	8.2	6.9	84.4
Williamsburg	-	46	16	2.5	21.8	2.2	4.3	16.4	70.4	62.9	130.7	5.7	1.7	26.9
York	-	169	57	15.6	161.3	13.0	25.6	121.6	348.4	431.6	773.0	36.1	14.6	178.4
CITIES														
Abbeville	-	17	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	36.7
Aiken	-	19	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	31.1
Allendale	-	11	6	0.7	5.5	0.6	1.3	4.2	12.8	20.1	32.9	2.2	0.6	4.6
Anderson	-	82	36	9.1	93.7	7.6	15.6	71.2	163.8	228.6	394.8	25.0	11.4	141.3
Andrews	E1	24	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	8.0
Bamberg	-	15	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	5.8
Barnwell	-	12	7	1.6	15.2	1.3	2.7	11.7	35.8	36.8	72.4	(D)	(D)	(D)
Batesburg	-	19	4	0.9	8.7	0.8	1.5	6.4	19.5	20.8	39.4	(D)	0.9	12.1
Belton	-	17	10	1.7	14.6	1.5	2.9	12.1	32.1	37.8	71.2	2.5	2.0	19.7
Bennettsville	-	21	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	29.5
Camden	-	38	8	1.0	9.3	0.9	1.8	7.5	14.6	12.0	27.0	0.5	(D)	(D)
Cayce	-	24	12	1.7	21.3	1.3	2.7	14.0	32.9	56.6	88.5	(D)	1.6	20.5
Charleston	-	59	18	2.4	30.1	1.3	2.5	13.2	63.6	109.3	173.2	(D)	3.4	56.1
Cheraw	-	26	9	1.1	11.3	0.8	1.8	7.8	30.7	74.0	101.8	(D)	1.9	20.1
Chester	-	42	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	23.9
Clinton	-	17	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	57.7
Clover	-	25	9	1.7	14.0	1.5	3.1	12.0	30.5	35 8	66.1	(D)	0.9	3.4
Columbia	-	120	33	4.2	46.9	2.9	5.7	26.9	82.3	131.5	214.7	4.3	4.1	(NA)
Conway	-	42	14	2.3	18.5	2.0	3.9	14.9	38.2	61.3	104.4	4.1	1.1	11.5
Darlington	-	34	7	1.3	12.6	1.2	2.3	10.1	25.9	47.9	70.9	(D)	(D)	(D)
Denmark	-	14	5	0.7	5.1	0.6	1.0	3.9	29.8	25.5	55.7	(D)	0.8	12.6
Dillon	-	23	10	1.4	11.9	1.2	2.3	8.7	37.3	44.8	80.5	0.9	2.1	27.9
Easley	-	51	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.2	59.6
Florence	-	59	16	2.3	24.4	1.7	3.3	16.7	57.2	63.2	119.5	2.9	5.4	91.1
Fort Mill	-	17	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 4. **All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972**—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
CITIES—Con.														
Fountain Inn	–	19	5	1.1	10.3	1.0	1.9	8.3	15.2	22.7	41.7	0.5	0.7	7.2
Gaffney	E7	44	20	3.7	39.7	3.1	6.3	29.3	67.8	125.5	194.9	18.4	4.8	49.5
Georgetown	–	45	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	68.5
Goose Creek	–	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Great Falls	–	9	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Greenville	–	203	83	12.4	130.6	8.9	17.3	77.8	221.7	259.1	480.6	17.0	12.3	170.6
Greenwood	–	65	23	7.7	83.4	5.9	11.9	53.9	123.1	266.5	380.1	10.5	8.4	117.8
Greer	–	41	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	35.0
Hampton	–	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hartsville	E1	35	18	4.0	56.8	2.8	5.7	32.0	80.2	125.2	203.4	(D)	4.7	59.8
Honea Path	–	10	5	1.4	12.5	1.2	2.5	10.1	35.3	29.3	64.0	1.0	(D)	(D)
Johnston	–	7	4	0.8	6.5	0.7	1.2	4.4	18.9	42.2	60.8	(D)	0.7	7.5
Kingstree	–	17	9	1.5	14.8	1.2	2.5	10.5	29.5	46.7	77.4	3.4	1.4	23.8
Lake City	–	13	5	0.7	5.6	0.8	1.0	4.3	13.2	13.7	27.5	0.5	1.1	12.8
Lancaster	–	30	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Laurens	–	36	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	55.0
Liberty	–	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Manning	E2	24	6	0.6	3.5	0.5	0.8	2.6	5.0	3.5	8.4	0.2	0.8	8.9
Marion	–	24	11	2.8	20.1	2.5	4.9	14.9	68.2	42.7	111.2	1.6	2.7	33.4
Mauldin	–	23	7	1.5	15.1	1.0	2.0	8.2	73.8	72.9	146.2	(D)	2.1	41.1
Moncks Corner	E1	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mullins	–	11	5	1.3	8.3	1.2	2.2	7.0	18.3	20.8	41.2	(D)	(D)	(D)
Myrtle Beach	–	32	6	1.7	15.0	1.5	3.0	11.1	28.8	17.7	45.8	4.4	(NA)	(NA)
Newberry	E2	26	4	1.6	13.9	1.4	2.9	11.9	18.9	18.1	36.0	(D)	2.1	24.3
North Charleston	–	46	16	2.5	36.6	1.6	2.9	20.5	70.6	103.5	172.5	(D)	(NA)	(NA)
Orangeburg	E1	63	15	2.1	19.7	1.6	3.1	12.3	38.4	58.5	96.8	2.2	3.6	62.3
Pendleton	–	10	6	1.1	11.6	0.9	1.8	7.8	25.0	20.1	45.0	(D)	(D)	(D)
Pickens	–	29	12	5.3	46.4	4.5	9.0	37.2	106.0	141.5	232.1	7.7	3.9	40.9
Rock Hill	–	78	26	5.5	53.9	4.6	9.2	42.0	88.9	93.6	180.0	13.2	5.8	66.8
Seneca	–	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	41.3
Simpsonville	–	22	8	2.2	23.3	1.8	3.7	17.3	50.8	55.8	100.1	(D)	2.3	48.9
Spartanburg	–	134	50	12.3	134.1	8.4	18.2	71.3	202.0	378.0	596.5	19.2	14.8	189.8
Summerville	–	32	9	1.0	9.5	0.8	1.6	6.5	16.2	26.5	42.2	(D)	1.3	14.1
Sumter	–	63	24	4.5	36.4	3.7	7.3	27.6	75.7	131.8	205.3	3.8	6.8	80.0
Union	–	25	13	4.3	40.8	3.7	7.5	29.8	88.3	92.7	178.0	4.9	4.3	53.1
Walhalla	–	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Walterboro	–	21	6	1.2	9.2	1.1	2.1	7.7	16.4	9.7	25.7	0.7	0.8	9.5
West Columbia	–	43	12	1.0	9.8	0.8	1.6	6.8	24.2	29.3	53.1	0.9	1.2	19.2
Westminster	–	14	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Williamston	–	7	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Williston	–	5	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Winnsboro	–	48	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Woodruff	–	14	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
York	–	17	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

– Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	**4 229**	**1 560**	**374.2**	**3 604.9**	**299.6**	**594.0**	**2 840.3**	**6 166.1**	**10 655.2**	**18 682.4**	**788.6**	**345.1**	**4 965.6**
20	**Food and kindred products**	-	**236**	**95**	**11.6**	**113.1**	**6.1**	**15.9**	**62.9**	**306.7**	**850.6**	**1 163.3**	**19.6**	**12.1**	**171.6**
201	Meat products	E1	61	16	2.3	18.8	1.9	3.7	13.7	36.6	159.1	195.4	4.2	2.1	25.7
2011	Meat packing plants	E1	43	9	1.1	10.0	0.8	1.7	6.5	22.2	94.4	116.7	2.4	1.2	16.8
2016	Poultry dressing plants	-	11	5	1.1	7.7	1.0	1.9	6.7	12.5	58.4	70.4	(D)	0.7	6.6
202	Dairy products	-	20	16	1.4	13.1	0.7	1.4	5.7	68.0	135.6	203.6	3.0	1.6	37.1
2026	Fluid milk	-	14	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
203	Preserved fruits and vegetables	-	11	5	2.0	17.4	1.8	3.4	14.1	38.2	98.2	136.5	1.7	2.1	18.9
2038	Frozen specialties	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
204	Grain mill products	-	30	9	0.5	4.5	0.3	0.6	2.3	9.9	55.8	66.4	1.5	0.5	9.5
2048	Prepared feeds, n.e.c.	-	20	5	0.3	2.9	0.2	0.4	1.6	7.6	48.7	55.0	(D)	0.4	7.4
205	Bakery products	-	13	10	2.0	24.2	1.2	2.4	12.2	59.7	59.1	118.9	2.7	1.7	25.4
2051	Bread, cake, and related products	-	13	10	2.0	24.2	1.2	2.4	12.2	59.7	59.1	118.9	2.7	1.7	25.4
206	Sugar and confectionery products	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2065	Confectionery products	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
207	Fats and oils	-	13	8	0.5	5.8	0.4	0.9	3.5	2.2	167.7	174.7	1.3	BB	(D)
2075	Soybean oil mills	-	5	4	0.2	2.9	0.2	0.4	1.6	-7.6	127.5	126.2	(D)	(NA)	(NA)
208	Beverages	-	36	25	1.9	22.3	0.7	1.5	6.3	68.1	150.7	219.2	4.6	2.4	35.5
2086	Bottled and canned soft drinks	-	34	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
209	Miscellaneous foods and kindred products	E1	48	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2092	Fresh or frozen packaged fish	E1	14	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
21	**Tobacco products**	-	**2**	**2**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**0.6**	**4.4**
2141	Tobacco stemming and redrying	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
22	**Textile mill products**	-	**429**	**357**	**139.1**	**1 293.8**	**124.0**	**250.9**	**1 068.3**	**2 468.3**	**4 057.2**	**6 475.7**	**207.8**	**143.3**	**1 723.9**
2211	Weaving mills, cotton	-	57	49	25.8	235.2	23.6	47.5	205.3	377.8	497.7	872.0	39.5	31.4	337.6
2221	Weaving mills, manmade fiber and silk	-	107	106	57.5	541.1	52.4	106.9	459.3	1 035.8	1 324.0	2 339.7	80.3	51.7	633.1
2231	Weaving and finishing mills, wool	-	4	4	0.5	4.9	0.5	0.9	3.8	14.2	21.1	31.9	(D)	BB	(D)
2241	Narrow fabric mills	-	17	14	2.4	19.8	2.1	4.1	15.5	40.4	50.1	90.0	(D)	2.8	25.3
225	Knitting mills	-	59	43	11.3	99.9	9.5	18.9	75.6	216.6	390.8	610.0	19.5	15.3	181.9
2251	Women's hosiery, except socks	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	26.8
2252	Hosiery, n.e.c.	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.8
2253	Knit outerwear mills	-	10	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2254	Knit underwear mills	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2257	Circular knit fabric mills	-	22	19	3.5	35.0	2.8	5.8	25.4	69.9	130.2	202.2	7.2	6.3	89.0
2258	Warp knit fabric mills	-	9	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	21.5
226	Textile finishing, except wool	-	41	37	19.0	188.0	15.9	32.4	144.7	326.5	927.9	1 238.3	34.1	19.5	256.9
2261	Finishing plants, cotton	-	14	13	7.3	71.7	6.2	12.8	56.7	118.6	159.6	276.2	5.8	8.6	113.8
2262	Finishing plants, synthetics	-	20	19	10.8	108.4	9.0	18.3	82.3	188.8	733.1	907.7	(D)	9.7	125.0
2269	Finishing plants, n.e.c.	-	7	5	0.9	8.0	0.7	1.5	5.7	19.2	35.2	54.4	(D)	1.2	18.1
227	Floor covering mills	-	25	13	4.4	39.2	3.8	7.4	30.2	97.0	232.4	324.6	4.6	FF	(D)
2271	Woven carpets and rugs	-	11	5	1.2	10.2	1.1	1.9	8.2	18.6	41.0	58.0	0.6	CC	(D)
2272	Tufted carpets and rugs	-	10	8	3.2	28.9	2.7	5.4	21.9	78.1	190.9	285.8	4.0	3.5	54.0
228	Yarn and thread mills	-	66	59	12.8	114.2	11.5	23.7	94.3	219.5	398.7	614.8	15.4	12.5	143.9
2281	Yarn mills, except wool	-	50	44	10.0	90.7	9.1	19.2	76.5	169.1	285.0	454.2	11.7	FF	(D)
2282	Throwing and winding mills	-	8	7	1.3	9.7	1.1	1.9	7.3	21.7	54.4	72.6	(D)	2.5	38.4
2283	Wool yarn mills	-	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2284	Thread mills	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
229	Miscellaneous textile goods	-	53	32	5.5	51.5	4.8	9.1	39.5	140.5	214.6	354.5	10.7	5.1	61.4
2291	Felt goods, except woven felts and hats	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2294	Processed textile waste	E1	13	7	0.8	8.3	0.7	1.3	5.2	14.1	35.3	50.7	(D)	CC	(D)
2296	Tire cord and fabric	-	5	5	1.0	10.0	0.8	1.8	7.9	33.1	84.5	116.7	1.2	0.9	13.9
2297	Nonwoven fabrics	-	8	8	2.0	18.6	1.5	3.0	13.9	49.9	61.3	111.1	3.7	0.7	3.9
2299	Textile goods, n.e.c.	E2	14	6	0.9	7.8	0.8	1.7	5.9	16.2	20.2	36.2	2.0	EE	(D)

See footnotes at end of table.

Table 5. **Statistics by Selected Industry Group and Industry for the State: 1977 and 1972**—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
23	**Apparel and other textile products**	–	319	238	**44.8**	**278.9**	**38.9**	**71.3**	**220.1**	**483.1**	**498.8**	**988.1**	**(D)**	**45.7**	**395.8**
2311	Men's and boys' suits and coats	–	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	7.2
232	Men's and boys' furnishings	–	57	50	10.7	62.5	9.6	17.3	52.7	105.4	82.2	197.9	(D)	11.9	101.3
2321	Men's and boys' shirts and nightwear	–	37	34	7.9	48.3	7.2	13.0	39.6	79.7	60.8	149.1	(D)	7.7	79.0
2322	Men's and boys' underwear	–	6	6	1.4	8.6	1.3	2.3	7.0	14.4	16.0	31.9	(D)	2.3	11.4
2328	Men's and boys' work clothing	–	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	4.8
2329	Men's and boys' clothing, n.e.c.	–	7	5	0.9	5.1	0.8	1.5	4.2	7.2	2.3	9.5	(D)	0.4	2.2
233	Women's and misses' outerwear	E1	127	97	15.0	88.2	13.1	23.3	70.4	146.9	89.9	236.5	(D)	13.5	102.3
2331	Women's and misses' blouses and waists	–	37	33	4.3	25.2	3.9	6.9	22.1	32.7	16.2	48.8	(D)	3.4	18.0
2335	Women's and misses' dresses	E4	41	24	4.9	27.2	4.4	8.0	22.8	38.8	12.1	50.9	(D)	7.8	52.8
2337	Women's and misses' suits and coats	–	18	15	1.6	12.6	1.3	2.3	7.0	42.3	53.1	95.5	(D)	CC	(D)
2339	Women's and misses' outerwear, n.e.c.	–	31	25	4.2	23.2	3.5	6.1	18.5	33.1	8.4	41.4	(D)	EE	(D)
234	Women's and children's undergarments	–	11	11	2.5	15.7	1.9	3.7	10.9	39.7	40.1	79.2	(D)	2.1	23.8
2341	Women's and children's underwear	–	11	11	2.5	15.7	1.9	3.7	10.9	39.7	40.1	79.2	(D)	2.1	23.8
236	Children's outerwear	–	27	26	7.3	42.3	6.3	11.6	32.4	71.6	71.9	144.9	(D)	7.4	59.5
2361	Children's dresses and blouses	–	15	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2363	Children's coats and suits	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2369	Children's outerwear, n.e.c.	–	11	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
238	Miscellaneous apparel and accessories	–	17	14	2.0	12.9	1.8	3.4	10.0	25.8	22.1	47.5	(D)	1.3	9.7
2384	Robes and dressing gowns	–	10	10	1.7	10.7	1.5	2.8	8.3	20.9	18.3	39.2	(D)	1.1	7.0
2389	Apparel and accessories, n.e.c.	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	–	74	34	6.3	51.2	5.3	10.2	38.8	86.2	189.0	271.0	(D)	7.8	91.2
2391	Curtains and draperies	–	21	7	0.7	4.2	0.6	1.0	3.1	9.3	17.5	26.9	(D)	1.0	9.2
2392	House furnishings, n.e.c.	–	19	13	4.2	35.3	3.5	6.8	26.4	56.7	148.4	200.7	(D)	FF	(D)
2395	Pleating and stitching	E1	11	7	0.4	2.9	0.3	0.6	2.1	5.3	6.6	11.9	(D)	0.2	2.0
2397	Schiffli machine embroideries	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2399	Fabricated textile products, n.e.c.	–	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	12.9
24	**Lumber and wood products**	**E1**	**1 269**	**144**	**13.7**	**124.3**	**11.9**	**23.3**	**96.1**	**291.0**	**500.9**	**788.3**	**(D)**	**14.2**	**170.8**
2411	Logging camps and logging contractors	E3	904	17	2.5	23.9	2.2	3.5	19.2	60.4	123.4	183.6	(D)	2.5	25.6
242	Sawmills and planing mills	–	181	83	5.0	43.3	4.4	9.5	35.3	104.3	158.5	262.0	(D)	4.9	60.1
2421	Sawmills and planing mills, general	–	170	58	4.8	42.1	4.3	9.2	34.4	102.5	158.5	258.2	11.3	FF	(D)
2426	Hardwood dimension and flooring	E2	11	5	0.2	1.1	0.2	0.3	0.9	1.8	2.0	3.8	0.2	0.2	2.3
243	Millwork, plywood, and structural members	–	99	36	3.8	34.4	3.3	6.5	26.3	76.2	137.6	212.9	(D)	3.8	46.3
2431	Millwork	–	39	11	0.6	5.9	0.5	1.0	3.7	13.5	28.1	41.3	(D)	0.9	12.3
2434	Wood kitchen cabinets	E2	26	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2435	Hardwood veneer and plywood	–	22	17	1.6	12.7	1.4	2.7	9.5	21.8	59.0	80.1	(D)	2.0	19.0
2436	Softwood veneer and plywood	–	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
244	Wood containers	E1	28	9	0.7	4.5	0.8	1.2	3.9	7.6	7.5	15.1	(D)	0.7	4.6
2441	Nailed wood boxes and shook	–	5	3	0.3	2.1	0.3	0.6	1.8	2.8	2.3	5.2	(D)	AA	(D)
2448	Wood pallets and skids	E3	19	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2449	Wood containers, n.e.c.	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.4
245	Wood buildings and mobile homes	–	8	4	0.2	1.6	0.2	0.3	1.1	2.5	7.1	9.5	0.3	0.8	9.4
2451	Mobile homes	–	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
249	Miscellaneous wood products	–	49	15	1.6	16.6	1.2	2.4	10.4	40.0	66.8	105.3	(D)	1.5	24.9
2491	Wood preserving	–	14	6	0.6	6.8	0.4	0.8	3.0	19.3	39.0	57.3	(D)	0.5	11.4
2499	Wood products, n.e.c.	–	34	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
25	**Furniture and fixtures**	**E1**	**63**	**29**	**4.1**	**34.6**	**3.5**	**8.9**	**25.9**	**87.5**	**61.4**	**128.2**	**(D)**	**5.0**	**55.8**
251	Household furniture	–	44	20	3.5	28.9	3.0	6.1	22.8	55.2	49.7	104.9	(D)	4.5	51.0
2511	Wood household furniture	E1	23	11	2.1	16.0	1.9	3.8	12.7	31.1	27.7	59.2	(D)	2.6	29.8
2512	Upholstered household furniture	–	9	5	0.9	8.7	0.8	1.6	7.2	17.0	14.1	30.8	(D)	1.4	15.7
2515	Mattresses and bedsprings	–	9	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
254	Partitions and fixtures	E2	12	5	0.5	4.3	0.3	0.6	2.2	9.5	9.0	17.8	(D)	0.3	3.9
2541	Wood partitions and fixtures	–	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2542	Metal partitions and fixtures	E4	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
26	**Paper and allied products**	–	**68**	**41**	**12.5**	**180.2**	**9.6**	**19.3**	**126.4**	**463.5**	**646.4**	**1 107.6**	**35.9**	**12.3**	**292.6**
2611	Pulp mills	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2621	Paper mills, except building paper	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2631	Paperboard mills	–	6	5	3.9	65.7	3.0	5.7	45.8	151.3	206.0	356.6	17.2	3.7	110.7
264	Miscellaneous converted paper products	–	26	11	3.2	36.6	2.5	5.3	26.1	115.0	152.4	262.1	7.9	FF	(D)
2641	Paper coating and glazing	–	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2643	Bags, except textile bags	–	6	4	1.6	20.5	1.4	3.1	14.9	43.9	62.1	104.3	(D)	1.5	37.7
2647	Sanitary paper products	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
265	Paperboard containers and boxes	–	32	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.0	66.4
2651	Folding paperboard boxes	E1	3	2	0.2	1.6	0.2	0.3	1.2	2.4	3.7	5.6	–	(NA)	(NA)
2653	Corrugated and solid fiber boxes	E1	17	14	1.6	19.0	1.2	2.3	12.4	37.0	75.6	112.3	2.2	1.5	22.7
2654	Sanitary food containers	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2655	Fiber cans, drums, and similar products	–	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
27	**Printing and publishing**	**E1**	**359**	**60**	**5.9**	**61.6**	**3.3**	**5.6**	**26.9**	**134.0**	**54.9**	**168.5**	**9.7**	**5.1**	**79.3**
2711	Newspapers	–	93	25	3.1	31.1	1.1	1.9	9.2	76.8	22.6	99.5	5.1	2.6	43.0
275	Commercial printing	E1	216	27	1.9	20.5	1.3	2.4	12.3	32.7	21.0	53.4	3.8	2.0	25.7
2751	Commercial printing, letterpress	E2	139	10	0.7	7.0	0.5	1.0	4.7	14.1	6.6	22.5	1.1	CC	(D)
2752	Commercial printing, lithographic	–	69	15	1.1	12.6	0.7	1.3	7.0	16.9	11.9	28.6	2.7	1.1	11.4
2761	Manifold business forms	E1	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
276	Blankbooks and bookbinding	–	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2762	Blankbooks and looseleaf binders	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
279	Printing trade services	E1	12	1	0.2	1.8	0.1	0.2	1.2	3.6	1.2	4.7	0.1	(NA)	(NA)
26	**Chemicals and allied products**	–	**164**	**65**	**33.1**	**483.2**	**22.0**	**43.4**	**264.7**	**1 449.3**	**1 508.0**	**2 908.9**	**151.8**	**27.6**	**813.7**
261	Industrial inorganic chemicals	–	16	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2619	Industrial inorganic chemicals, n.e.c.	–	9	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
262	Plastics materials and synthetics	–	22	20	20.6	260.4	15.6	30.7	160.9	681.4	1 096.8	1 755.8	114.9	17.2	458.7
2821	Plastics materials and resins	–	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2823	Cellulosic manmade fibers	–	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2824	Organic fibers, noncellulosic	–	14	14	18.4	250.3	13.9	27.3	161.8	606.0	979.5	1 565.1	106.4	FF	(D)
283	Drugs	–	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2834	Pharmaceutical preparations	–	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
284	Soaps, cleaners, and toilet goods	–	36	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2842	Polishes and sanitation goods	–	11	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2843	Surface active agents	–	15	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2851	Paints and allied products	–	4	2	0.3	2.9	0.1	0.3	1.2	4.8	10.4	15.3	0.4	(NA)	(NA)
286	Industrial organic chemicals	–	25	18	1.9	25.6	1.2	2.4	14.1	142.9	163.8	300.5	21.2	1.2	50.2
2865	Cyclic crudes and intermediates	–	8	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2869	Industrial organic chemicals, n.e.c.	–	12	9	1.1	15.5	0.7	1.5	6.6	99.1	97.9	193.1	8.3	0.6	26.8
287	Agricultural chemicals	E1	34	9	0.5	5.4	0.4	0.8	3.1	26.9	46.5	72.8	2.5	0.7	11.8
2874	Phosphatic fertilizers	–	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	7.2
2875	Fertilizers, mixing only	E1	17	4	0.2	1.8	0.1	0.3	1.0	5.8	17.9	24.4	0.7	0.2	1.4
29	**Petroleum and coal products**	–	9	3	0.4	5.1	0.3	0.6	3.1	12.8	35.1	47.6	(D)	**BB**	(D)
295	Paving and roofing materials	–	9	3	0.4	5.1	0.3	0.8	3.1	12.8	35.1	47.6	(D)	BB	(D)
2952	Asphalt felts and coatings	–	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
30	**Rubber and miscellaneous plastics products**	–	93	57	12.5	146.3	9.8	19.9	99.3	363.0	382.4	899.2	64.1	FF	(D)
3011	Tires and inner tubes	–	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3041	Rubber and plastics hose and belting	–	3	3	0.9	9.8	0.7	1.3	6.9	24.4	22.0	41.0	2.6	BB	(D)
3069	Fabricated rubber products, n.e.c.	–	13	10	1.4	13.6	1.1	2.3	9.8	29.2	46.6	75.8	2.1	CC	(D)
3079	Miscellaneous plastics products	–	72	41	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
31	**Leather and leather products**	E1	**8**	**4**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(NA)**	**(NA)**
3111	Leather tanning and finishing	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
32	**Stone, clay, and glass products**	–	**181**	**68**	**11.2**	**129.4**	**8.9**	**17.8**	**94.8**	**307.8**	**233.8**	**549.4**	**34.0**	**10.2**	**179.1**
322	Glass and glassware, pressed or blown	–	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3221	Glass containers	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3229	Pressed and blown glass, n.e.c.	–	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3241	Cement, hydraulic	–	3	3	0.8	10.0	0.5	1.0	7.9	32.5	32.4	65.1	(D)	BB	(D)
325	Structural clay products	–	15	14	1.1	10.4	0.9	1.8	6.9	20.3	18.4	40.8	(D)	1.4	21.8
3251	Brick and structural clay tile	–	14	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
326	Pottery and related products	–	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3261	Vitreous plumbing fixtures	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3264	Porcelain electrical supplies	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
327	Concrete, gypsum, and plaster products	E1	122	37	2.6	28.6	1.9	3.7	16.4	58.8	68.9	126.1	5.8	2.5	36.0
3271	Concrete block and brick	E2	15	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3272	Concrete products, n.e.c.	E1	43	14	1.0	10.1	0.7	1.4	5.8	18.7	15.9	34.9	0.9	CC	(D)
3273	Ready-mixed concrete	–	63	20	1.4	14.4	1.0	2.0	9.4	33.4	47.1	80.8	4.5	1.2	18.5
329	Miscellaneous nonmetallic mineral products	–	13	8	1.5	18.2	1.1	2.1	10.0	29.4	19.8	49.6	(D)	EE	(D)
3293	Gaskets, packing, and sealing devices	–	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3295	Minerals, ground or treated	–	5	2	0.2	2.3	0.1	0.3	1.3	3.2	4.1	7.3	(D)	(NA)	(NA)
33	**Primary metal industries**	–	**52**	**27**	**4.6**	**82.3**	**3.8**	**8.2**	**47.0**	**114.5**	**323.3**	**438.7**	**83.8**	**3.3**	**58.9**
331	Blast furnace and basic steel products	–	16	9	2.4	39.7	2.0	4.4	30.3	71.7	224.3	298.0	(D)	1.8	34.3
3312	Blast furnaces and steel mills	–	6	3	1.7	29.2	1.4	3.1	22.7	46.1	127.7	174.0	21.7	EE	(D)
3313	Electrometallurgical products	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3315	Steel wire and related products	–	5	3	0.4	4.3	0.3	0.6	3.0	9.4	29.8	38.8	0.9	(NA)	(NA)
332	Iron and steel foundries	–	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3321	Gray iron foundries	–	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3341	Secondary nonferrous metals	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing	–	9	8	1.0	10.0	0.9	1.8	7.7	22.7	65.9	90.3	0.8	0.6	13.0
3354	Aluminum extruded products	–	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3357	Nonferrous wire drawing and insulating	–	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
336	Nonferrous foundries	–	16	5	0.5	5.6	0.5	1.0	4.7	13.8	10.9	21.8	1.1	0.4	5.2
3361	Aluminum foundries	–	8	4	0.5	4.9	0.4	0.9	4.3	11.6	9.8	18.8	(D)	AA	(D)
34	**Fabricated metal products**	–	**232**	**85**	**12.3**	**135.0**	**9.5**	**19.1**	**92.8**	**315.8**	**380.7**	**687.1**	**36.7**	**8.1**	**114.7**
341	Metal cans and shipping containers	–	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3411	Metal cans	–	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
342	Cutlery, hand tools, and hardware	–	15	9	3.4	32.3	2.7	5.4	22.8	83.5	40.9	119.6	(D)	EE	(D)
3423	Hand and edge tools, n.e.c.	–	7	6	2.8	27.1	2.3	4.5	19.2	73.8	35.9	105.2	2.6	CC	(D)
3425	Hand saws and saw blades	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3429	Hardware, n.e.c.	E2	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
343	Plumbing and heating, except electric	–	8	4	0.5	4.5	0.4	0.7	3.1	10.2	11.5	22.5	0.6	0.5	8.1
3433	Heating equipment, except electric	–	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
344	Fabricated structural metal products	–	124	42	4.3	49.6	3.1	6.2	32.5	97.2	146.9	243.6	7.3	4.2	50.4
3441	Fabricated structural metal	–	35	18	2.2	24.2	1.5	3.0	15.2	51.9	82.0	134.3	4.1	2.3	22.4
3442	Metal doors, sash, and trim	–	16	1	0.2	1.9	0.2	0.4	1.3	4.0	7.9	12.0	0.1	AA	(D)
3443	Fabricated plate work (boiler shops)	E3	14	9	0.5	6.0	0.3	0.7	3.9	7.3	9.8	16.7	0.8	AA	(D)
3444	Sheet metal work	E1	33	8	0.5	5.4	0.4	0.7	3.5	9.4	10.9	20.1	0.5	0.2	4.7
3448	Architectural metal work	–	17	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	4.1
3449	Miscellaneous metal work	–	6	4	0.6	8.7	0.5	1.0	6.4	19.1	32.4	51.1	(D)	0.7	11.8
346	Metal forgings and stampings	–	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3465	Automotive stampings	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3469	Metal stampings, n.e.c.	–	4	2	0.2	1.9	0.1	0.3	1.2	2.4	10.6	12.8	0.2	(NA)	(NA)
347	Metal services, n.e.c.	–	23	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.4
3471	Plating and polishing	–	12	4	0.2	1.5	0.2	0.2	1.2	2.8	2.2	4.8	(D)	0.2	2.3
3479	Metal coating and allied services	–	11	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
34	**Fabricated metal products**—Con.														
349	Miscellaneous fabricated metal products	-	44	16	2.2	25.7	1.8	3.4	17.2	67.7	51.9	116.8	(D)	1.1	18.7
3494	Valves and pipe fittings	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3496	Miscellaneous fabricated wire products	-	9	4	0.6	6.8	0.4	0.8	3.8	15.0	13.9	28.6	0.7	(NA)	(NA)
3498	Fabricated pipe and fittings	-	6	3	0.6	8.5	0.5	1.0	6.4	21.7	18.9	40.6	1.0	BB	(D)
3499	Fabricated metal products, n.e.c.	-	26	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
35	**Machinery, except electrical**	-	**382**	**112**	**27.3**	**311.5**	**20.7**	**42.1**	**206.8**	**890.9**	**774.9**	**t 443.0**	**57.7**	**18.9**	**406.4**
351	Engines and turbines	-	5	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3511	Turbines and turbine generator sets	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3519	Internal combustion engines, n.e.c.	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
352	Farm and garden machinery	-	11	5	0.9	8.2	0.8	1.4	5.6	20.1	63.0	83.6	(D)	CC	(D)
3523	Farm machinery and equipment	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3524	Lawn and garden equipment	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
353	Construction and related machinery	-	26	13	2.8	32.4	2.1	4.0	19.4	79.9	100.9	173.4	8.7	1.3	25.5
3531	Construction machinery	-	13	7	1.7	21.1	1.3	2.4	12.8	49.2	60.9	104.6	(D)	CC	(D)
3532	Mining machinery	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3535	Conveyors and conveying equipment	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3536	Hoists, cranes, and monorails	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3537	Industrial trucks and tractors	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
354	Metalworking machinery	-	44	13	4.9	48.1	4.1	8.3	36.8	139.1	120 4	246.7	7.6	2.6	32.5
3544	Special dies, tools, jigs, and fixtures	E1	26	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.9
3545	Machine tool accessories	-	8	6	0.6	6.1	0.5	1.1	5.1	13.0	10.3	23.1	0.7	BB	(D)
3546	Power driven hand tools	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
355	Special industry machinery	-	93	41	7.3	80.8	5.5	11.1	54.4	139.2	98.8	249.7	9.9	6.7	119.0
3552	Textile machinery	-	86	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.4	89.2
356	General industrial machinery	-	26	13	4.8	57.0	3.8	8.2	41.1	139.6	144.2	276.0	16.7	2.4	50.2
3562	Ball and roller bearings	-	9	8	3.9	45.6	3.3	7.2	35.9	120.5	114.8	228.1	16.1	2.2	46.0
3566	Speed changers, drives, and gears	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3569	General industrial machinery, n.e.c.	-	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
357	Office and computing machines	-	5	5	1.3	14.7	0.7	1.2	6.1	41.4	33.9	71.4	1.6	1.2	24.2
3573	Electronic computing equipment	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3574	Calculating and accounting machines	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3576	Scales and balances, except laboratory	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3579	Office machines, n.e.c. and typewriters	E1	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
358	Refrigeration and service machinery	-	15	7	1.1	10.8	0.9	1.8	7.3	26.0	29.8	53.8	(D)	CC	(D)
3585	Refrigeration and heating equipment	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3589	Service industry machinery, n.e.c.	-	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E3	157	11	0.9	9.9	0.7	1.3	6.9	17.0	9.7	26.4	2.0	0.8	12.2
3599	Machinery, except electrical, n.e.c.	E3	157	11	0.9	9.9	0.7	1.3	6.9	17.0	9.7	26.4	2.0	0.8	12.2
36	**Electric and electronic equipment**	-	**79**	**41**	**17.4**	**187.1**	**13.7**	**28.5**	**109.9**	**402.2**	**334.1**	**722.5**	**31.0**	**13.1**	**185.3**
361	Electric distributing equipment	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3613	Switchgear and switchboard apparatus	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
362	Electrical industrial apparatus	-	16	10	3.2	35.6	2.0	4.0	20.2	94.3	69.1	163.0	5.8	1.7	48.9
3621	Motors and generators	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3622	Industrial controls	-	9	4	1.2	14.6	0.7	1.4	7.1	32.6	19.9	53.7	(D)	BB	(D)
3623	Welding apparatus, electric	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3624	Carbon and graphite products	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3629	Electrical industrial apparatus, n.e.c.	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
363	Household appliances	-	8	7	4.1	34.1	3.4	5.9	22.9	93.9	114.6	202.1	4.1	2.6	36.2
3632	Household refrigerators and freezers	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3634	Electric housewares and fans	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3636	Sewing machines	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
38	**Electric and electronic equipment—Con.**														
364	Electric lighting and wiring equipment	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	11.8
3641	Electric lamps	-	t	t	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
366	Communication equipment	-	t4	7	t.9	20.0	t.5	2.8	t3.4	48.2	25.4	72.0	2.2	BB	(D)
3662	Radio and TV communication equipment	-	13	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
367	Electronic components and accessories	-	17	8	6.7	62.2	5.4	11.0	42.3	tt6.5	75.6	188.8	17.0	5.8	51.3
3675	Electronic capacitors	-	8	5	8.3	59.t	5.1	t0.4	40.4	109.8	72.9	179.4	16.7	FF	(D)
3677	Electronic coils and transformers	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
369	Miscellaneous electrical equipment and supplies	-	t0	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	t.t	26.7
3691	Storage batteries	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3699	Electrical equipment and supplies, n.e.c.	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
37	**Transportation equipment**	-	70	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	46.2
371	Motor vehicles and equipment	-	18	7	2.5	22.7	2.1	4.3	14.9	53.9	42.2	92.8	(D)	t.3	14.7
371t4	Motor vehicle parts and accessories	-	9	5	2.3	21.0	2.0	4.1	14.1	49.7	38.9	86.9	(D)	EE	(D)
372	Aircraft and parts	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
373	Ship and boat building and repairing	E1	33	14	t.7	20.2	1.5	2.9	14.7	35.4	33.1	68.7	(D)	0.8	13.1
3731	Ship building and repairing	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3732	Boat building and repairing	E2	29	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
376	Guided missiles, space vehicles, parts	-	1	t	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
376t	Guided missiles and space vehicles	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
38	**Instruments and related products**	E1	27	11	4.7	44.9	3.8	7.4	33.2	126.8	74.4	200.0	(D)	3.9	78.3
38t1	Engineering and scientific instruments	-	2	t	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
382	Measuring and controlling devices	E5	6	4	1.8	18.6	1.5	2.9	12.5	48.5	t5.9	63.3	(D)	1.4	2t.2
3822	Environmental controls	-	t	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3824	Fluid meters and counting devices	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3825	Instruments to measure electricity	E0	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
384	Medical instruments and supplies	-	14	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3842	Surgical appliances and supplies	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3851	Ophthalmic goods	-	t	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
39	**Miscellaneous manufacturing industries**	E1	93	27	4.2	33.1	3.5	8.8	24.0	76.2	50.4	128.4	(D)	5.0	79.3
3931	Musical instruments	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
394	Toys and sporting goods	E3	23	9	1.6	t2.3	1.4	2.5	8.6	20.6	16.7	41.5	(D)	2.t	23.9
3942	Dolls	E0	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3949	Sporting and athletic goods, n.e.c.	-	18	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
396	Costume jewelry and notions	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3964	Needles, pins, and fasteners	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
399	Miscellaneous manufactures	E1	51	11	0.8	6.9	0.6	1.1	4.2	t3.7	8.6	22.3	(D)	EE	(D)
3993	Signs and advertising displays	Et	33	7	0.5	4.9	0.4	0.7	3.0	8.8	5.4	14.3	(D)	CC	(D)
3995	Burial caskets	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
-	**Administrative and auxiliary**	-	94	67	9.0	141.0	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for t0 percent or more of figures shown: Et—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—t50 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Augusta, Ga.-S.C., SMSA	-	**302**	**131**	**34.7**	**428.0**	**24.9**	**50.6**	**257.7**	**1 090.5**	**1 102.3**	**2 174.7**	**177.5**	**30.4**	**578.2**
20	Food and kindred products	-	25	15	2.5	25.2	1.6	3.1	12.8	57.6	131.9	189.9	4.1	2.6	38.0
205	Bakery products	-	5	4	1.3	13.0	1.0	1.7	7.2	30.8	35.5	86.3	1.1	(NA)	(NA)
22	Textile mill products	-	21	18	9.4	92.8	8.6	18.6	79.6	140.3	236.9	375.4	(D)	9.1	98.8
226	Textile finishing, except wool	-	4	4	2.5	26.8	2.0	4.7	20.3	38.4	42.2	80.6	(D)	(NA)	(NA)
23	Apparel and other textile products	E1	16	13	2.2	13.7	2.0	3.6	10.9	18.3	10.5	28.4	0.2	2.0	13.4
232	Men's and boys' furnishings	E2	4	4	1.0	5.4	0.9	1.7	4.6	7.8	2.2	9.7	(D)	0.6	3.9
239	Miscellaneous fabricated textile products	E2	6	3	0.6	4.2	0.5	0.9	2.7	5.5	7.2	12.6	(D)	0.7	6.5
24	Lumber and wood products	-	63	10	0.7	6.7	0.6	1.2	5.2	17.5	29.2	46.3	1.1	0.7	7.6
26	Paper and allied products	-	13	11	2.5	41.0	2.1	4.4	31.4	149.6	243.5	388.5	13.3	2.8	81.7
2621	Paper mills, except building paper	-	3	3	0.5	9.0	0.4	0.8	6.9	25.0	81.1	106.0	(D)	(NA)	(NA)
27	Printing and publishing	-	32	4	0.5	5.0	0.2	0.3	1.8	13.4	3.8	17.2	(D)	0.5	9.7
28	Chemicals and allied products	-	21	11	7.9	144.3	4.0	7.9	62.1	493.2	260.3	745.7	(D)	6.6	248.5
32	Stone, clay, and glass products	-	23	9	3.4	35.8	2.7	5.1	26.5	97.9	65.5	161.7	5.4	3.3	56.8
34	Fabricated metal products	-	17	8	0.4	5.2	0.3	0.7	3.7	7.4	12.4	19.6	0.5	0.6	8.0
344	Fabricated structural metal products	-	10	7	0.4	4.8	0.3	0.6	3.4	6.5	11.7	18.0	(D)	0.5	5.0
35	Machinery, except electrical	-	21	8	1.3	15.7	1.0	1.9	9.9	31.2	20.8	49.7	(D)	0.4	8.2
–	Administrative and auxiliary	-	12	10	1.3	17.9	–	–	–	–	–	–	–	(NA)	(NA)
	Charleston-North Charleston SMSA	-	**323**	**103**	**17.6**	**205.8**	**12.8**	**24.8**	**126.5**	**453.4**	**612.9**	**1 042.8**	**91.8**	**15.2**	**263.6**
242	Sawmills and planing mills	-	9	5	0.5	3.4	0.4	0.8	2.8	8.5	14.8	22.9	(D)	0.5	10.8
27	Printing and publishing	E1	47	5	0.7	7.0	0.3	0.5	2.8	15.6	5.6	21.2	1.5	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	9	5	0.9	9.6	0.8	1.5	7.3	30.8	24.4	50.2	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	18	10	1.6	19.1	1.2	2.4	12.7	42.2	35.4	78.4	4.7	1.4	27.9
327	Concrete, gypsum, and plaster products	-	13	6	0.3	2.8	0.2	0.4	1.8	7.1	7.0	14.1	(D)	(NA)	(NA)
34	Fabricated metal products	-	17	4	0.4	3.7	0.3	0.6	2.2	14.2	7.0	19.2	(D)	0.3	3.2
37	Transportation equipment	-	19	11	1.6	21.5	1.3	2.3	12.8	35.3	21.8	54.8	1.7	0.7	13.0
3732	Boat building and repairing	E1	13	6	0.3	3.2	0.2	0.4	2.4	4.9	8.0	13.1	0.5	(NA)	(NA)
	Columbia SMSA	-	**391**	**145**	**24.9**	**277.7**	**18.1**	**35.3**	**161.1**	**647.6**	**702.5**	**1 324.6**	**91.2**	**21.6**	**315.9**
20	Food and kindred products	-	21	9	1.0	8.6	0.6	1.2	4.0	23.3	50.9	74.1	(D)	1.2	17.1
201	Meat products	-	8	4	0.5	3.4	0.4	0.7	2.3	7.8	20.7	28.3	(D)	0.5	6.9
22	Textile mill products	-	12	9	3.8	34.1	3.4	6.5	24.7	75.2	62.5	136.6	(D)	3.8	37.5
23	Apparel and other textile products	-	25	17	2.1	13.5	1.9	3.6	10.5	18.6	27.7	46.4	(D)	2.1	17.5
233	Women's and misses' outerwear	-	6	6	0.4	2.4	0.4	0.8	2.0	2.4	11.4	13.7	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	-	11	4	0.5	3.8	0.4	0.8	2.6	6.3	9.0	15.4	(D)	(NA)	(NA)
24	Lumber and wood products	E1	54	9	0.5	3.6	0.4	0.7	2.6	8.0	11.9	19.9	(D)	0.6	6.7
27	Printing and publishing	-	66	13	1.8	16.8	0.9	1.7	7.9	33.4	13.9	47.2	2.5	1.2	18.8
275	Commercial printing	-	43	9	0.7	7.7	0.4	0.9	4.2	10.1	6.4	16.4	(D)	0.5	6.8
2752	Commercial printing, lithographic	-	15	5	0.4	5.2	0.3	0.5	2.5	5.5	3.3	8.7	(D)	(NA)	(NA)
28	Chemicals and allied products	-	19	8	4.6	69.0	3.0	5.5	35.2	220.0	213.6	418.8	(D)	3.2	85.9
32	Stone, clay, and glass products	-	25	15	1.0	10.8	0.8	1.6	7.1	24.8	22.2	48.4	(D)	(NA)	(NA)
325	Structural clay products	-	4	4	0.4	3.7	0.3	0.6	2.6	9.0	8.3	16.2	(D)	(NA)	(NA)
34	Fabricated metal products	-	44	19	2.1	27.0	1.5	3.2	16.7	51.8	94.3	143.9	4.5	1.6	17.8
3441	Fabricated structural metal	-	12	9	1.1	14.5	0.8	1.6	8.4	29.0	39.7	67.6	3.2	0.9	8.7
39	Miscellaneous manufacturing industries	E4	23	7	1.2	10.2	0.9	1.7	6.1	19.2	12.0	31.6	(D)	1.5	17.1
3993	Signs and advertising displays	-	13	3	0.3	3.3	0.2	0.5	2.1	5.9	3.5	9.4	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Greenville-Spartanburg SMSA	-	**983**	**428**	**104.8**	**1 071.9**	**81.2**	**181.8**	**715.1**	**2 129.7**	**3 003.8**	**5 086.0**	**212.0**	**98.2**	**1 458.1**
20	Food and kindred products	-	48	23	2.3	25.0	1.8	3.0	13.6	89.0	191.1	280.2	8.1	2.5	45.9
202	Dairy products	-	4	4	0.4	4.4	0.3	0.8	2.5	26.2	82.0	88.2	1.6	0.4	17.8
208	Bevarages	-	8	5	0.4	5.9	0.1	0.3	1.1	13.1	28.1	41.2	1.8	0.8	8.7
22	Taxtile mill products	-	139	117	41.2	386.2	36.7	73.8	320.2	691.7	1 218.8	1 900.1	73.8	42.8	554.3
2221	Waaving mills, manmade fiber and silk	-	33	32	17.8	168.1	16.4	33.7	148.7	311.4	457.7	760.8	(D)	17.8	250.2
228	Yarn and thread mills	-	14	14	2.3	22.6	2.1	4.3	18.4	37.8	68.1	108.7	1.8	(NA)	(NA)
2281	Yarn mills, excapt wool	-	10	10	1.7	17.0	1.6	3.2	14.0	28.2	35.9	65.1	(D)	(NA)	(NA)
23	Apparel and othar textile products	-	63	45	11.6	82.9	9.6	17.7	81.6	157.5	215.2	373.5	(D)	14.7	157.0
232	Men's and boys' furnishings	-	8	7	2.2	12.8	2.0	3.5	10.8	32.0	22.8	53.9	(D)	3.0	23.5
233	Woman's and misses' outerwear	-	25	17	3.0	20.2	2.5	4.4	14.4	46.2	50.4	96.7	(D)	3.6	42.8
2361	Children's dresses and blouses	E1	3	3	0.4	2.3	0.4	0.7	1.9	3.0	0.4	3.4	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	-	17	8	3.2	28.4	2.8	5.2	21.9	38.1	99.4	137.3	(D)	4.2	58.2
26	Paper and allied products	-	25	15	2.8	32.8	2.2	4.7	22.5	69.3	95.4	182.6	4.4	2.5	50.1
265	Paperboard containers and boxes	-	15	10	0.9	10.1	0.7	1.5	6.7	17.9	31.6	49.2	(D)	0.8	10.6
27	Printing and publishing	E1	88	12	1.5	16.1	0.8	1.4	7.1	33.3	15.5	48.7	2.0	1.1	19.0
2711	Newspapers	-	16	3	0.7	8.2	0.3	0.5	2.2	20.8	6.6	27.4	0.8	(NA)	(NA)
275	Commercial printing	E1	59	7	0.6	6.1	0.4	0.7	3.5	9.3	6.7	15.9	1.1	0.5	7.1
2752	Commercial printing, lithographic	-	20	5	0.4	4.1	0.3	0.4	2.2	5.7	4.6	10.2	0.9	0.3	3.7
30	Rubber and miscellaneous plastics products	-	36	20	4.7	59.7	3.3	6.7	36.0	143.0	172.2	293.4	44.4	1.6	24.4
3079	Miscallaneous plastics products	-	26	13	2.0	25.3	1.4	2.8	13.8	62.7	55.3	114.9	(D)	(NA)	(NA)
33	Primary metal industries	-	20	6	0.6	6.9	0.5	1.1	5.1	17.3	23.9	38.5	1.3	0.8	10.6
34	Fabricated metal products	-	65	23	2.8	32.3	2.2	4.5	22.7	60.8	107.7	168.4	2.8	2.2	32.5
344	Fabricated structural metal products	-	34	7	0.6	6.6	0.4	0.8	3.9	12.7	25.6	39.1	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	15	7	0.7	8.0	0.8	1.0	5.2	11.5	13.4	24.8	(D)	0.4	5.5
35	Machinary, axcapt electrical	-	160	50	13.1	142.2	9.9	20.1	95.5	325.6	302.4	630.9	17.1	9.7	230.0
36	Electric and electronic equipment	-	25	8	4.6	46.2	3.5	7.3	30.4	86.8	81.6	167.4	8.8	3.7	54.1
37	Transportation aquipment	-	14	4	1.3	15.0	1.0	2.1	8.8	29.0	35.3	67.7	1.5	0.8	11.9
39	Miscellaneous manufacturing industries	-	25	5	1.2	7.6	1.0	1.8	5.9	18.3	14.6	28.7	(D)	1.3	16.5
--	Administrative and auxiliary	-	51	36	4.7	77.1	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and salas data for small single-unit companies with up to 20 employees (cutoff variad by industry) were obtained from administrative records of other government agencies rather than from census report forms. Thasa data were then used in conjunction with industry avaragas to estimate the balance of items shown for thasa small astablishmants. This techniqua was also used for a small numbar of other establishments whose reports were not receivad at time data were tabulated. The following symbols are shown for those States where estimated data based on administrativa records data account for 10 percent or more of figuras shown: E1—10 to 19 percant; E2—20 to 29 parcent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percant; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industrias includas axtensiva duplication, since products of some industrias are usad as matarials by othars (saa appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Abbeville County	-	**34**	16	**5.3**	**49.5**	**4.7**	**9.2**	**39.6**	**83.3**	**161.7**	**248.5**	**7.2**	**5.6**	**75.3**
22	Textile mill products	-	9	9	4.3	38.7	3.8	7.5	32.7	60.7	125.6	187.3	8.8	4.5	56.1
2221	Weaving mills, manmade fiber and silk	-	5	5	1.8	17.6	1.5	3.1	13.7	31.0	56.5	87.0	(D)	(NA)	(NA)
	Aiken County	-	**95**	**47**	**19.2**	**250.2**	**13.4**	**27.2**	**148.3**	**811.0**	**348.8**	**950.9**	**15.0**	**16.2**	**320.9**
	Allendale County	-	**23**	**9**	**0.8**	**8.1**	**0.7**	**1.5**	**4.7**	**14.3**	**21.6**	**36.2**	**(D)**	**0.8**	**7.0**
	Anderson County	-	**187**	**67**	**24.2**	**237.9**	**20.4**	**41.5**	**179.6**	**433.8**	**541.7**	**980.4**	**48.1**	**22.4**	**260.9**
20	Food and kindred products	-	11	5	0.5	8.3	0.3	0.5	2.8	13.5	16.1	29.5	0.8	0.5	7.8
22	Textile mill products	-	35	34	12.7	122.1	11.4	24.1	99.9	234.0	301.7	538.0	13.0	13.1	147.0
2211	Weaving mills, cotton	-	9	9	4.2	39.5	3.9	8.3	35.1	65.8	83.5	148.2	3.4	(NA)	(NA)
2221	Weaving mills, manmade fiber and silk	-	14	14	6.5	64.3	5.8	12.3	50.8	135.9	171.3	309.9	6.1	(NA)	(NA)
228	Yarn and thread mills	-	4	4	0.8	7.8	0.8	1.7	6.9	9.9	24.7	35.1	(D)	1.9	22.9
23	Apparel and other textile products	-	21	16	2.5	14.1	2.3	4.1	12.1	20.3	7.8	28.0	(D)	2.8	16.3
233	Women's and misses' outerwear	-	10	9	1.4	8.5	1.3	2.2	7.3	12.0	2.5	14.5	(D)	1.2	5.7
30	Rubber and miscellaneous plastics products	-	5	4	1.0	12.6	0.8	1.6	8.8	11.5	13.8	31.4	(D)	(NA)	(NA)
34	Fabricated metal products	-	18	3	0.5	4.6	0.4	0.8	3.4	9.7	6.1	15.3	0.4	(NA)	(NA)
35	Machinery, except electrical	-	21	7	0.7	6.9	0.5	1.0	4.4	16.7	10.0	26.9	1.3	0.5	5.2
	Bamberg County	-	**41**	**15**	**1.6**	**12.2**	**1.4**	**2.8**	**9.4**	**44.2**	**42.0**	**88.7**	**1.7**	**1.7**	**20.5**
	Barnwell County	-	**21**	**12**	**3.1**	**25.6**	**2.7**	**5.2**	**19.9**	**56.1**	**83.3**	**117.2**	**3.2**	**2.3**	**25.4**
	Beaufort County	-	**48**	**15**	**1.4**	**10.2**	**1.1**	**2.0**	**7.2**	**17.2**	**17.3**	**32.7**	**3.5**	**1.0**	**8.6**
	Berkeley County	-	**52**	**19**	**3.6**	**36.7**	**3.2**	**5.8**	**27.0**	**120.4**	**105.2**	**210.1**	**16.4**	**2.7**	**52.0**
23	Apparel and other textile products	-	5	4	0.7	3.3	0.6	0.9	2.5	3.6	5.4	9.0	(D)	(NA)	(NA)
	Charleston County	-	**209**	**84**	**11.7**	**149.3**	**7.9**	**15.8**	**84.9**	**291.1**	**458.5**	**742.1**	**66.4**	**10.3**	**179.5**
20	Food and kindred products	-	19	7	0.8	8.0	0.2	0.5	1.8	27.1	38.1	65.3	0.8	1.0	12.7
23	Apparel and other textile products	-	8	3	0.9	5.1	0.8	1.5	4.3	15.1	9.8	24.8	(D)	0.9	7.9
27	Printing and publishing	-	40	5	0.6	6.8	0.3	0.5	2.7	15.4	5.4	20.8	1.5	0.9	11.4
28	Chemicals and allied products	-	15	8	1.2	19.0	0.8	1.7	9.9	47.5	85.0	130.6	(D)	0.6	18.0
	Cherokee County	-	**57**	**29**	**6.1**	**82.4**	**5.1**	**10.6**	**48.6**	**110.9**	**194.2**	**304.6**	**20.7**	**6.7**	**76.6**
22	Textile mill products	-	16	14	3.9	38.1	3.4	6.8	29.1	66.8	107.4	174.9	7.0	4.3	53.0
	Chester County	-	**70**	**31**	**7.5**	**72.5**	**6.7**	**13.3**	**59.6**	**154.5**	**160.1**	**336.6**	**8.2**	**6.9**	**110.4**
23	Apparel and other textile products	-	10	8	1.2	8.7	1.1	2.1	7.1	9.5	25.0	40.8	(D)	(NA)	(NA)
	Chesterfield County	-	**76**	**35**	**5.8**	**49.6**	**4.9**	**9.8**	**36.8**	**122.6**	**210.1**	**325.8**	**33.9**	**5.7**	**59.9**
22	Textile mill products	-	15	13	2.7	21.9	2.3	4.4	16.3	39.1	98.9	137.0	8.1	3.2	36.7
228	Yarn and thread mills	-	5	4	1.1	7.5	1.0	1.7	5.8	14.5	35.1	49.5	(D)	1.1	8.8
23	Apparel and other textile products	-	10	7	1.0	6.2	0.9	1.7	5.1	7.6	9.4	18.1	(D)	1.5	9.5
34	Fabricated metal products	-	8	5	1.1	10.1	0.9	1.8	7.4	44.3	25.0	64.0	(D)	(NA)	(NA)
	Clarendon County	-	**40**	**13**	**1.6**	**13.7**	**1.8**	**2.9**	**9.5**	**21.5**	**52.4**	**60.6**	**1.7**	**1.5**	**15.3**
23	Apparel and other textile products	E4	6	6	0.8	4.3	0.8	1.3	3.7	6.9	1.5	8.3	(D)	0.6	2.8
	Colleton County	-	**52**	**13**	**2.9**	**23.9**	**2.8**	**4.6**	**19.0**	**42.7**	**40.6**	**61.7**	**3.5**	**2.0**	**20.9**
	Darlington County	-	**63**	**31**	**8.5**	**106.7**	**6.7**	**13.7**	**71.2**	**223.2**	**469.2**	**669.1**	**34.1**	**6.6**	**136.9**
	Dillon County	-	**46**	**16**	**2.7**	**22.3**	**2.2**	**4.3**	**15.8**	**62.5**	**65.6**	**146.1**	**1.8**	**2.7**	**34.6**
22	Textile mill products	-	10	9	1.7	14.7	1.5	2.9	11.2	47.6	65.2	110.2	1.4	1.8	27.9
2281	Yarn mills, except wool	-	3	3	0.5	3.1	0.4	0.9	2.7	5.2	10.7	15.9	(D)	(NA)	(NA)
	Dorchester County	-	**62**	**20**	**2.2**	**19.8**	**1.7**	**3.4**	**14.6**	**41.9**	**49.2**	**90.5**	**7.0**	**2.2**	**32.2**
24	Lumber and wood products	E1	25	3	0.5	3.1	0.4	0.7	2.6	5.8	11.2	16.7	(D)	0.5	6.0

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Edgefield County	–	**52**	**13**	**2.1**	**19.1**	**1.8**	**3.8**	**14.0**	**41.8**	**70.1**	**111.7**	**1.3**	**1.7**	**23.8**
22	Textile mill products	–	4	4	0.7	7.1	0.6	1.4	6.0	15.0	16.1	31.3	(Z)	(NA)	(NA)
	Fairfield County	–	**94**	**8**	**1.9**	**15.4**	**1.8**	**3.2**	**11.3**	**31.4**	**57.3**	**88.4**	**1.0**	**2.4**	**18.4**
	Florence County	–	**142**	**56**	**12.0**	**122.9**	**9.7**	**18.5**	**86.1**	**332.7**	**290.5**	**817.0**	**21.6**	**11.5**	**175.8**
20	Food and kindred products	–	13	5	0.6	7.5	0.3	0.6	3.2	20.7	34.6	55.2	1.2	0.6	10.1
22	Textile mill products	–	8	7	1.0	6.1	0.9	1.7	6.7	31.0	37.4	68.9	0.3	2.4	18.2
23	Apparel and other textile products	–	11	8	1.7	9.7	1.5	2.5	7.8	14.6	10.0	24.9	(D)	2.0	14.8
24	Lumber and wood products	–	41	12	0.8	6.6	0.7	1.3	4.9	20.2	20.9	41.1	(D)	1.0	10.0
34	Fabricated metal products	–	12	6	0.8	10.1	0.6	1.3	7.0	23.3	30.2	52.7	(D)	0.8	13.8
36	Electric and electronic equipment	–	5	3	2.9	31.0	2.3	4.3	21.3	82.5	39.6	115.9	9.9	(NA)	(NA)
	Georgetown County	–	**71**	**18**	**5.2**	**81.5**	**4.5**	**8.5**	**48.3**	**126.5**	**248.0**	**372.9**	**18.2**	**4.7**	**80.1**
23	Apparel and other textile products	–	7	4	0.7	2.9	0.6	1.0	2.1	3.9	1.3	5.1	(D)	(NA)	(NA)
	Greenville County	–	**545**	**237**	**49.2**	**504.3**	**38.0**	**76.1**	**339.7**	**1 110.7**	**1 408.7**	**2 491.1**	**120.2**	**45.3**	**720.9**
20	Food and kindred products	–	31	18	1.4	14.3	1.0	1.8	7.7	52.7	117.1	169.9	3.3	1.6	32.9
22	Textile mill products	–	52	46	17.4	163.8	15.3	32.0	136.0	310.8	489.6	796.3	26.0	18.0	218.9
2221	Weaving mills, manmade fiber and silk	–	16	16	9.4	88.6	8.5	18.0	76.4	161.5	171.3	330.0	(D)	(NA)	(NA)
226	Textile finishing, except wool	–	5	4	1.6	13.9	1.3	2.7	10.3	23.4	40.2	62.6	(D)	(NA)	(NA)
23	Apparel and other textile products	–	35	28	5.4	35.0	4.5	8.0	27.2	65.7	64.7	132.5	(D)	6.5	57.6
26	Paper and allied products	–	13	7	1.9	21.9	1.5	3.2	15.8	47.0	57.2	101.7	(D)	1.6	36.1
27	Printing and publishing	E1	50	8	1.0	10.6	0.6	1.0	5.1	20.6	10.8	31.4	0.6	0.8	14.7
28	Chemicals and allied products	–	32	15	3.3	40.3	2.5	4.9	26.3	161.4	167.4	343.8	24.7	3.3	105.6
30	Rubber and miscellaneous plastics products	–	20	11	3.4	47.6	2.3	4.7	27.8	120.5	147.0	245.9	39.6	0.9	15.9
344	Fabricated structural metal products	–	26	4	0.5	5.2	0.3	0.6	3.1	10.6	20.4	31.8	(D)	(NA)	(NA)
35	Machinery, except electrical	–	104	35	6.4	72.5	4.6	9.2	45.5	193.7	152.6	346.7	7.3	5.1	161.8
355	Special industry machinery	–	40	19	3.5	38.9	2.6	5.1	26.3	70.2	48.4	116.5	5.0	3.4	61.0
--	Administrative and auxiliary	–	30	19	1.6	23.6	–	–	–	–	–	–	–	(NA)	(NA)
	Greenwood County	–	**102**	**39**	**12.1**	**126.3**	**9.6**	**19.5**	**87.4**	**235.0**	**406.8**	**630.9**	**26.7**	**12.1**	**209.9**
23	Apparel and other textile products	–	5	5	0.8	4.4	0.7	1.2	3.5	6.1	3.0	9.1	(D)	0.7	4.4
	Hampton County	–	**51**	**10**	**1.6**	**19.9**	**1.3**	**2.9**	**14.4**	**48.0**	**75.6**	**120.5**	**2.5**	**1.8**	**32.9**
	Horry County	–	**114**	**29**	**6.7**	**51.2**	**5.8**	**10.8**	**39.2**	**105.6**	**103.4**	**212.7**	**9.8**	**4.1**	**38.5**
23	Apparel and other textile products	E1	7	5	2.0	11.1	1.6	2.6	8.0	18.3	12.2	30.6	(D)	(NA)	(NA)
24	Lumber and wood products	E1	45	4	0.6	5.0	0.5	1.1	4.1	9.1	12.7	22.0	(D)	0.8	6.5
	Kershaw County	–	**93**	**22**	**7.9**	**96.7**	**8.3**	**12.4**	**68.2**	**302.8**	**312.7**	**605.0**	**11.6**	**7.1**	**180.3**
	Lancaster County	–	51	17	9.8	89.1	7.9	14.9	64.2	143.0	524.9	657.9	3.1	(D)	(D)
	Laurens County	–	**92**	**28**	**9.3**	**92.4**	**8.1**	**18.1**	**73.7**	**199.4**	**191.2**	**388.8**	**12.0**	**9.5**	**143.8**
22	Textile mill products	–	11	10	5.0	46.2	4.5	8.9	38.9	86.7	113.2	198.6	7.7	5.1	66.0
2221	Weaving mills, manmade fiber and silk	–	3	3	2.3	20.7	2.1	4.2	18.0	34.2	43.5	75.2	(D)	(NA)	(NA)
23	Apparel and other textile products	–	5	4	0.6	3.1	0.5	0.9	2.3	5.2	2.2	6.9	(D)	(NA)	(NA)
	Lee County	–	**20**	**6**	**0.8**	**8.2**	**0.8**	**1.4**	**4.7**	**20.1**	**46.4**	**66.8**	**0.8**	**(D)**	**(D)**
	Lexington County	–	188	85	10.8	118.9	8.6	16.4	76.7	261.5	338.7	589.8	65.5	9.9	157.6
22	Textile mill products	–	5	5	1.3	12.2	1.2	2.3	10.1	21.9	27.3	48.6	4.1	(NA)	(NA)
23	Apparel and other textile products	–	9	7	0.9	5.7	0.8	1.4	4.4	8.6	7.5	16.1	(D)	0.9	9.4
34	Fabricated metal products	E1	17	7	0.6	7.1	0.5	1.0	5.1	15.2	18.4	33.3	0.8	0.5	7.5
39	Miscellaneous manufacturing industries	E5	8	3	0.7	6.7	0.5	1.0	3.7	13.5	7.9	22.1	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	McCormick County	–	41	3	0.9	8.2	0.8	1.6	8.7	19.0	31.9	51.0	1.1	0.8	10.6
	Marion County	–	43	21	5.4	38.5	4.8	9.3	29.9	106.5	94.3	202.9	4.1	4.9	51.2
22	Textile mill products	–	8	5	1.8	13.9	1.6	3.2	11.1	46.6	37.1	82.8	0.7	1.5	17.8
	Marlboro County	–	35	19	4.2	35.0	3.5	7.2	27.3	78.5	184.7	242.4	(D)	4.5	48.1
22	Textile mill products	–	6	6	2.1	21.0	1.8	3.9	17.0	40.9	118.4	161.1	(D)	2.4	23.9
	Newberry County	–	92	22	5.3	47.8	4.8	9.5	39.8	97.0	138.2	234.0	4.7	4.2	42.1
22	Textile mill products	–	6	4	2.1	19.3	2.0	4.0	17.2	35.3	35.3	69.1	(D)	2.8	28.0
23	Apparel and other textile products	E2	5	5	0.9	5.9	0.8	1.5	5.2	12.1	8.0	18.6	(D)	(NA)	(NA)
24	Lumber and wood products	–	66	9	1.3	14.0	1.2	2.5	11.9	34.7	47.3	81.9	(D)	(NA)	(NA)
	Oconee County	–	64	23	8.3	52.8	5.2	10.1	42.8	109.5	75.8	188.5	4.3	6.9	87.3
22	Textile mill products	–	7	6	2.1	18.5	1.7	3.5	14.7	40.6	40.5	81.2	2.3	3.0	24.2
23	Apparel and other textile products	–	12	10	1.7	10.3	1.4	2.5	8.5	16.2	8.9	24.9	(D)	(NA)	(NA)
	Orangeburg County	–	113	37	8.3	80.3	6.8	14.1	56.4	208.5	278.9	480.5	8.3	7.1	117.6
20	Food and kindred products	E1	7	4	0.5	8.0	0.2	0.4	2.0	11.5	24.4	36.6	(D)	0.6	8.9
23	Apparel and other textile products	–	8	8	2.0	12.2	1.8	3.7	9.9	19.5	15.4	34.4	(D)	2.0	13.9
233	Woman's and misses' outerwear	E1	3	3	0.5	2.8	0.4	0.7	2.0	4.8	2.9	7.8	(D)	(NA)	(NA)
24	Lumber and wood products	–	48	11	2.0	18.9	1.8	4.1	15.4	34.9	82.0	116.8	(D)	1.6	22.7
35	Machinery, except electrical	–	11	8	1.4	16.1	1.0	2.0	9.9	39.3	71.5	103.4	(D)	0.6	27.1
	Pickens County	–	117	47	17.5	166.8	14.9	29.3	129.4	338.7	481.3	796.0	39.1	14.9	217.8
22	Textile mill products	–	23	20	7.9	74.5	7.4	14.5	65.3	143.5	264.5	402.8	24.4	7.7	125.8
2221	Weaving mills, manmade fiber and silk	–	8	8	4.7	44.0	4.5	8.7	40.4	85.0	194.9	276.1	18.8	(NA)	(NA)
229	Miscellaneous textile goods	E4	4	3	0.6	6.1	0.5	1.0	4.6	13.0	11.3	24.1	(D)	(NA)	(NA)
23	Apparel and other textile products	–	7	5	0.9	6.3	0.6	1.2	4.0	16.9	13.4	29.1	(D)	1.0	10.4
	Richland County	–	223	80	14.1	160.8	9.8	18.9	84.4	386.1	363.8	734.7	25.7	11.7	156.3
20	Food and kindred products	–	11	6	0.7	6.4	0.3	0.6	2.3	17.5	34.9	52.5	(D)	0.8	12.2
22	Textile mill products	–	7	4	2.5	21.8	2.2	4.2	14.7	53.2	35.1	88.0	(D)	(NA)	(NA)
23	Apparel and other textile products	–	18	10	1.3	7.8	1.1	2.2	6.1	10.0	20.2	30.4	(D)	1.3	8.0
27	Printing and publishing	–	46	7	1.2	12.9	0.6	1.1	5.3	25.8	11.6	37.3	2.4	(NA)	(NA)
32	Stone, clay, and glass products	–	17	10	0.8	8.5	0.6	1.2	5.5	19.0	17.8	37.8	(D)	0.7	11.6
34	Fabricated metal products	–	27	12	1.5	19.9	1.1	2.2	11.6	36.6	75.9	110.6	3.7	1.0	10.3
35	Machinery, except electrical	E1	16	7	0.7	9.6	0.4	0.9	5.1	27.2	10.2	36.8	1.0	0.7	13.3
	Saluda County	–	43	9	1.4	10.9	1.2	2.2	8.6	23.0	50.4	73.2	(D)	1.0	9.4
23	Apparel and other textile products	–	6	4	0.5	3.0	0.5	0.9	2.5	4.0	0.4	4.4	0.1	(NA)	(NA)
	Spartanburg County	–	321	144	38.2	401.1	28.4	56.2	248.1	680.4	1 115.8	1 799.0	52.7	36.0	519.7
22	Textile mill products	–	64	51	15.9	147.9	14.0	27.3	118.9	237.4	464.8	701.0	21.3	17.0	209.6
2211	Weaving mills, cotton	–	11	11	6.9	62.4	6.2	12.0	51.2	89.3	129.6	219.6	5.1	(NA)	(NA)
2221	Weaving mills, manmade fiber and silk	–	9	8	3.7	35.4	3.4	6.9	29.9	64.8	91.5	154.7	1.5	(NA)	(NA)
225	Knitting mills	–	16	12	3.0	28.8	2.4	4.3	19.8	45.2	155.9	201.6	10.0	3.6	47.7
228	Yarn and thread mills	–	7	7	0.6	5.0	0.5	1.0	4.2	7.0	18.1	25.0	0.2	1.0	16.2
229	Miscellaneous textile goods	–	11	7	0.6	6.4	0.6	1.2	5.2	17.4	38.0	55.2	(D)	(NA)	(NA)
23	Apparel and other textile products	–	21	12	5.4	41.6	4.5	8.5	30.5	74.9	137.1	212.0	(D)	(NA)	(NA)
28	Chemicals and allied products	–	22	8	3.6	45.6	2.3	4.6	23.2	121.8	186.8	300.2	15.1	(NA)	(NA)
34	Fabricated metal products	–	16	8	1.6	16.7	1.3	2.7	14.1	38.4	73.7	111.4	1.4	(NA)	(NA)
355	Special industry machinery	–	13	4	1.0	10.5	0.8	1.7	7.7	6.1	9.1	29.5	1.2	(NA)	(NA)
3552	Textile machinery	–	13	4	1.0	10.5	0.8	1.7	7.7	6.1	9.1	29.5	1.2	(NA)	(NA)
–	Administrative and auxiliary	–	18	14	3.0	49.9	–	–	–	–	–	–	–	(NA)	(NA)

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SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Sumter County	-	**74**	**34**	**8.7**	**73.6**	**7.3**	**14.5**	**57.0**	**164.2**	**256.2**	**416.7**	**6.4**	**7.5**	**65.1**
22	Textile mill products	-	4	4	1.3	10.9	1.3	2.5	9.5	24.9	50.6	75.3	1.3	(NA)	(NA)
23	Apparel and other textile products	-	6	4	0.7	3.9	0.8	1.0	3.1	8.1	10.1	17.7	(D)	(NA)	(NA)
25	Furniture and fixtures	-	4	3	1.8	12.5	1.4	3.0	10.0	25.9	19.6	45.2	0.5	1.7	20.6
34	Fabricated metal products	-	6	2	1.4	12.8	1.1	2.1	10.1	24.4	24.4	50.2	0.7	(NA)	(NA)
	Union County	-	**43**	**20**	**7.5**	**70.5**	**6.4**	**13.0**	**54.0**	**150.6**	**151.5**	**296.7**	**6.2**	**6.9**	**84.4**
22	Textile mill products	-	15	13	6.3	59.4	5.4	11.0	45.3	113.3	120.2	232.4	5.7	8.2	72.1
	Williamsburg County	-	**46**	**16**	**2.5**	**21.6**	**2.2**	**4.3**	**16.4**	**70.4**	**62.9**	**130.7**	**5.7**	**1.7**	**26.9**
30	Rubber and miscelleneous plastics products	-	3	3	1.5	13.1	1.3	2.6	10.0	42.4	34.5	74.3	(D)	(NA)	(NA)
	York County	-	**169**	**57**	**15.6**	**161.3**	**13.0**	**25.6**	**121.6**	**348.4**	**431.6**	**773.0**	**36.1**	**14.6**	**178.4**
22	Textile mill products	-	33	20	9.2	83.6	6.3	16.3	71.1	137.0	169.4	300.1	(D)	9.4	96.9
226	Yarn and thread mills	-	11	7	1.5	12.2	1.4	2.6	11.1	26.1	37.0	62.9	0.7	1.1	7.6
23	Apparel and other textile products	E1	16	10	1.0	6.4	0.9	1.7	5.4	9.1	10.2	19.8	(D)	0.5	2.7

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Allendale	-	11	6	0.7	5.5	0.6	1.3	4.2	12.6	20.1	32.9	2.2	0.6	4.6
	Anderson	-	62	36	9.1	93.7	7.6	15.6	71.2	163.8	226.6	394.6	25.0	11.4	141.3
	Barnwell	-	12	7	1.6	15.2	1.3	2.7	11.7	35.6	36.8	72.4	(D)	(D)	(D)
	Bateaburg	-	19	4	0.9	6.7	0.6	1.5	8.4	19.5	20.6	39.4	(D)	0.9	12.1
	Belton	-	17	10	1.7	14.6	1.5	2.9	12.1	32.1	37.6	71.2	2.5	2.0	19.7
	Camden	-	36	6	1.0	9.3	0.9	1.6	7.5	14.6	12.0	27.0	0.5	(D)	(D)
	Cayce	-	24	12	1.7	21.3	1.3	2.7	14.0	32.9	56.6	66.5	(D)	1.6	20.5
	Charleston	-	59	16	2.4	30.1	1.3	2.5	13.2	63.6	109.3	173.2	(D)	3.4	56.1
20	Food and kindred products	-	8	5	0.6	6.0	0.1	0.3	1.1	21.6	31.5	53.4	(D)	(NA)	(NA)
27	Printing and publishing	-	20	4	0.6	5.9	0.2	0.4	2.0	13.7	4.4	18.1	(D)	0.9	10.9
	Cheraw	-	26	9	1.1	11.3	0.8	1.8	7.6	30.7	74.0	101.8	(D)	1.9	20.1
	Clover	-	25	9	1.7	14.0	1.5	3.1	12.0	30.5	35.6	66.1	(D)	0.9	3.4
22	Textile mill products	-	9	5	1.2	10.6	1.2	2.4	9.5	23.9	29.6	53.2	0.7	0.7	2.4
	Columbia	-	120	33	4.2	46.9	2.9	5.7	26.9	82.3	131.5	214.7	4.3	4.1	(NA)
34	Fabricated metal products	-	14	6	1.0	13.8	0.6	1.3	7.3	22.9	64.7	87.4	(D)	0.7	5.1
	Conway	-	42	14	2.3	16.5	2.0	3.9	14.9	36.2	61.3	104.4	4.1	1.1	11.5
	Darlington	-	34	7	1.3	12.6	1.2	2.3	10.1	25.9	47.9	70.9	(D)	(D)	(D)
	Denmark	-	14	5	0.7	5.1	0.6	1.0	3.9	29.8	25.5	55.7	(D)	0.6	12.6
	Dillon	-	23	10	1.4	11.9	1.2	2.3	6.7	37.3	44.6	60.5	0.9	2.1	27.9
	Florence	-	59	16	2.3	24.4	1.7	3.3	16.7	57.2	63.2	119.5	2.9	5.4	91.1
20	Food and kindred products	-	7	3	0.5	6.1	0.2	0.5	2.7	17.0	28.1	45.1	(D)	(NA)	(NA)
	Fountain Inn	-	19	5	1.1	10.3	1.0	1.9	6.3	15.2	22.7	41.7	0.5	0.7	7.2
	Gaffney	-	44	20	3.7	39.7	3.1	6.3	29.3	67.6	125.5	194.9	16.4	4.8	49.5
22	Textile mill products	-	10	6	1.8	17.9	1.5	3.1	13.9	30.9	44.0	77.5	(D)	2.9	32.3
	Greenville	-	203	83	12.4	130.6	6.9	17.3	77.6	221.7	259.1	480.6	17.0	12.3	170.6
22	Textile mill products	-	11	6	2.3	22.3	2.0	4.2	18.3	41.5	56.4	99.4	1.7	2.9	35.3
27	Printing and publishing	-	31	6	0.6	6.5	0.4	0.8	3.7	17.6	8.6	26.2	0.5	(NA)	(NA)
34	Fabricated metal products	-	18	7	0.6	7.5	0.5	1.0	4.7	10.1	12.5	22.5	1.1	(NA)	(NA)
35	Machinery, except electrical	-	36	15	1.8	21.8	1.2	2.3	14.8	42.6	27.6	69.1	2.6	1.0	15.2
355	Special industry machinery	-	17	10	1.5	19.0	1.1	2.0	13.1	35.6	20.6	55.8	(D)	(NA)	(NA)
--	Administrative and auxiliary	-	19	11	0.7	12.2	-	-	-	-	-	-	-	(NA)	(NA)
	Greenwood	-	65	23	7.7	83.4	5.9	11.9	53.9	123.1	266.5	380.1	10.5	6.4	117.8
	Hartsville	-	35	16	4.0	56.6	2.8	5.7	32.0	60.2	125.2	203.4	(D)	4.7	59.8
	Honea Path	-	10	5	1.4	12.5	1.2	2.5	10.1	35.3	29.3	64.0	1.0	(D)	(D)
	Johnston	-	7	4	0.8	6.5	0.7	1.2	4.4	18.9	42.2	60.8	(D)	0.7	7.5
	Kingstree	-	17	9	1.5	14.8	1.2	2.5	10.5	29.5	48.7	77.4	3.4	1.4	23.8
	Lake City	-	13	5	0.7	5.6	0.6	1.0	4.3	13.2	13.7	27.5	0.5	1.1	12.8
	Manning	-	24	6	0.6	3.5	0.5	0.6	2.6	5.0	3.5	6.4	0.2	0.8	8.9
	Marion	-	24	11	2.6	20.1	2.5	4.9	14.9	68.2	42.7	111.2	1.6	2.7	33.4
	Mauldin	-	23	7	1.5	15.1	1.0	2.0	8.2	73.8	72.9	146.2	(D)	2.1	41.1
	Mullins	-	11	5	1.3	8.3	1.2	2.2	7.0	18.3	20.8	41.2	(D)	(D)	(D)
	Myrtle Beach	-	32	6	1.7	15.0	1.5	3.0	11.1	28.8	17.7	45.8	4.4	(NA)	(NA)
	Newberry	-	26	4	1.8	13.9	1.4	2.9	11.9	18.9	16.1	36.0	(D)	2.1	24.3
	North Charleston	-	48	16	2.5	36.6	1.6	2.9	20.5	70.6	103.5	172.5	(D)	(NA)	(NA)
	Orangeburg	-	83	15	2.1	19.7	1.6	3.1	12.3	38.4	58.5	96.8	2.2	3.6	62.3
	Pendleton	-	10	8	1.1	11.6	0.9	1.8	7.6	25.0	20.1	45.0	(D)	(D)	(D)
	Pickens	-	29	12	5.3	48.4	4.5	9.0	37.2	106.0	141.5	232.1	7.7	3.9	40.9
	Rock Hill	-	76	28	5.5	53.9	4.8	9.2	42.0	88.9	93.6	180.0	13.2	5.8	88.8
22	Textile mill products	-	11	7	4.2	41.1	3.6	7.3	33.7	62.9	60.5	120.5	(D)	(NA)	(NA)
	Simpsonville	-	22	8	2.2	23.3	1.8	3.7	17.3	50.8	55.8	100.1	(D)	2.3	48.9
	Spartanburg	-	134	50	12.3	134.1	8.4	16.2	71.3	202.0	378.0	596.5	19.2	14.6	189.8
20	Food and kindred products	-	6	4	0.6	9.3	0.5	1.0	4.7	23.2	41.6	65.0	2.1	(NA)	(NA)
22	Textile mill products	-	20	14	4.5	42.2	3.7	6.7	30.5	55.1	180.7	237.0	10.8	5.5	64.7
2257	Circular knit fabric mills	-	5	4	0.5	4.7	0.4	0.9	4.1	8.5	14.5	23.5	(D)	(NA)	(NA)
35	Machinery, except electrical	-	21	4	1.0	10.6	0.8	1.7	7.6	5.6	8.5	28.6	1.3	1.1	15.4
355	Special industry machinery	-	7	3	0.9	9.5	0.7	1.5	7.0	4.3	7.4	26.0	1.1	(NA)	(NA)
3552	Textile machinery	-	7	3	0.9	9.5	0.7	1.5	7.0	4.3	7.4	26.0	1.1	(NA)	(NA)
	Summerville	-	32	9	1.0	9.5	0.6	1.6	6.5	16.2	26.5	42.2	(D)	1.3	14.1
	Sumter	-	83	24	4.5	36.4	3.7	7.3	27.6	75.7	131.8	205.3	3.8	6.8	80.0
25	Furniture and fixtures	-	4	3	1.6	12.5	1.4	3.0	10.0	25.9	19.8	45.2	0.5	1.7	20.6
	Union	-	25	13	4.3	40.8	3.7	7.5	29.8	88.3	92.7	178.0	4.9	4.3	53.1
	Walterboro	-	21	6	1.2	9.2	1.1	2.1	7.7	16.4	9.7	25.7	0.7	0.8	9.5
	West Columbia	-	43	12	1.0	9.8	0.8	1.6	6.8	24.2	29.3	53.1	0.9	1.2	19.2

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
SOUTH CAROLINA	4229	236	2	429	319	1269	63	68	359	164	9	93	8	181	52	232	382	79	70	27	93	94
1 TO 4 EMPLOYEES	1910	88	-	43	48	945	21	11	224	49	2	15	2	52	17	88	177	29	30	11	51	7
5 TO 9 EMPLOYEES	366	36	-	10	13	88	5	6	35	26	2	13	-	24	5	23	51	4	7	3	8	7
10 TO 19 EMPLOYEES	393	17	-	19	20	92	8	10	40	24	2	8	2	37	3	36	42	5	6	2	7	13
20 TO 49 EMPLOYEES	461	38	-	37	53	78	11	5	38	21	1	16	3	32	6	28	37	6	9	2	12	28
50 TO 99 EMPLOYEES	304	26	-	33	45	41	9	6	10	14	1	14	-	19	6	21	27	4	7	1	4	16
100 TO 249 EMPLOYEES	378	22	1	91	87	20	6	17	7	10	-	14	1	10	10	25	20	13	5	1	3	15
250 TO 499 EMPLOYEES	219	6	1	101	34	3	1	5	4	5	1	6	-	1	4	8	14	8	2	3	7	5
500 TO 999 EMPLOYEES	141	2	-	73	17	1	1	4	1	4	-	6	-	4	-	2	9	6	4	3	1	3
1000 TO 2499 EMPLOYEES	50	1	-	19	2	1	1	4	-	9	-	1	-	2	1	1	4	3	-	1	-	-
2500 EMPLOYEES AND OVER	7	-	-	3	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	-	-	-
ABBEVILLE COUNTY	34	1	-	9	5	11	-	1	2	-	-	1	-	-	1	1	2	-	-	-	-	-
1 TO 19 EMPLOYEES	18	1	-	-	1	10	-	1	2	-	-	1	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	3	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	5	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
AIKEN COUNTY	95	6	-	11	6	19	3	3	10	3	-	1	-	7	-	8	5	3	3	2	-	5
1 TO 19 EMPLOYEES	48	4	-	-	1	17	-	-	8	1	-	-	-	5	-	4	3	3	1	1	-	-
20 TO 99 EMPLOYEES	22	1	-	-	2	2	3	-	2	1	-	-	-	1	-	3	2	-	2	-	-	3
100 TO 249 EMPLOYEES	7	1	-	1	1	-	-	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	18	-	-	10	2	-	-	1	-	1	-	-	-	1	-	-	-	-	-	1	-	2
ALLENDALE COUNTY	23	3	-	3	4	10	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	14	3	-	1	1	7	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	2	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANDERSON COUNTY	167	11	-	35	21	9	-	2	11	7	-	5	-	8	3	18	21	8	1	2	1	4
1 TO 19 EMPLOYEES	80	6	-	1	5	7	-	2	8	5	-	1	-	6	2	15	14	5	-	2	1	-
20 TO 99 EMPLOYEES	41	4	-	8	7	2	-	-	2	1	-	2	-	1	1	2	5	1	1	-	-	4
100 TO 249 EMPLOYEES	17	-	-	7	7	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-
250 EMPLOYEES AND OVER	29	1	-	19	2	-	-	-	1	1	-	1	-	1	-	1	-	2	-	-	-	-
BAMBERG COUNTY	41	5	-	3	3	21	-	-	1	1	-	1	1	-	-	2	1	1	1	-	-	-
1 TO 19 EMPLOYEES	26	5	-	-	-	17	-	-	-	1	-	-	1	-	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	10	-	-	2	2	4	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
BARNWELL COUNTY	21	-	-	3	3	6	-	-	1	1	-	-	-	1	-	2	1	1	-	1	1	-
1 TO 19 EMPLOYEES	9	-	-	-	-	5	-	-	1	1	-	-	-	1	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	1	2	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
100 TO 249 EMPLOYEES	6	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-
250 EMPLOYEES AND OVER	48	12	-	1	3	6	1	-	9	3	-	1	-	3	1	2	2	-	1	-	2	1
BEAUFORT COUNTY	33	9	-	1	1	6	1	-	7	1	-	1	-	2	-	1	2	-	-	-	1	-
1 TO 19 EMPLOYEES	10	2	-	-	-	-	-	-	2	2	-	-	-	1	-	1	-	-	-	-	1	1
20 TO 99 EMPLOYEES	4	1	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	52	-	-	3	5	27	-	-	1	2	-	2	-	2	-	1	5	1	1	1	-	1
BERKELEY COUNTY	33	-	-	-	1	21	-	-	1	-	-	-	-	2	-	1	4	1	-	1	-	1
1 TO 19 EMPLOYEES	6	-	-	-	1	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	8	-	-	2	2	1	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	1	1	1	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	15	2	-	-	1	6	1	-	2	1	-	-	-	-	-	-	1	1	-	-	-	-
CALHOUN COUNTY	10	1	-	-	-	5	-	-	2	1	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	209	19	-	2	8	31	4	6	40	15	2	4	-	12	2	13	19	1	18	4	5	4
CHARLESTON COUNTY	145	12	-	1	5	25	3	4	35	7	1	3	-	5	1	10	16	-	8	3	5	1
1 TO 19 EMPLOYEES	38	3	-	-	1	4	-	-	3	6	-	-	-	6	-	2	-	1	8	1	-	3
20 TO 99 EMPLOYEES	15	3	-	1	-	2	1	1	2	1	-	1	-	-	1	1	-	-	1	-	-	-
100 TO 249 EMPLOYEES	11	1	-	-	2	-	-	1	-	1	1	-	-	1	-	-	3	-	1	-	-	-
250 EMPLOYEES AND OVER	57	3	-	16	5	5	1	1	8	2	-	2	-	6	-	-	5	-	-	-	2	1
CHEROKEE COUNTY	28	2	-	2	1	5	1	1	7	2	-	-	-	4	-	-	1	-	-	-	2	-
1 TO 19 EMPLOYEES	11	-	-	2	3	-	-	-	1	-	-	-	-	2	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	11	1	-	6	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	7	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER																						

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
CHESTER COUNTY	70	2	-	11	10	29	-	-	4	1	-	-	-	2	2	4	3	-	-	-	1	1
1 TO 19 EMPLOYEES	39	-	-	-	2	28	-	-	3	-	-	-	-	1	1	2	1	-	-	-	1	-
20 TO 99 EMPLOYEES	9	1	-	-	3	1	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	1
100 TO 249 EMPLOYEES	10	1	-	1	3	-	-	-	1	1	-	-	-	-	1	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	12	-	-	10	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHESTERFIELD COUNTY	76	6	-	15	10	23	-	1	1	1	-	1	1	3	-	6	5	1	-	-	1	1
1 TO 19 EMPLOYEES	41	3	-	2	3	20	-	1	1	1	-	1	1	2	-	1	4	-	-	-	1	-
20 TO 99 EMPLOYEES	16	2	-	6	1	3	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	1
100 TO 249 EMPLOYEES	12	1	-	3	6	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	4	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-
CLARENDON COUNTY	40	1	-	-	6	26	-	-	2	-	-	-	-	1	-	-	3	-	-	-	-	1
1 TO 19 EMPLOYEES	27	1	-	-	-	22	-	-	2	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	7	-	-	-	5	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
COLLETON COUNTY	52	3	-	2	4	35	-	1	2	-	-	1	-	1	1	1	-	1	-	-	-	-
1 TO 19 EMPLOYEES	39	3	-	-	1	31	-	1	1	-	-	-	-	1	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	7	-	-	-	1	4	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	2	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
DARLINGTON COUNTY	83	4	-	3	4	38	-	5	7	4	1	1	-	4	1	3	4	2	1	-	-	1
1 TO 19 EMPLOYEES	52	2	-	-	1	33	-	-	6	1	-	-	-	3	-	3	3	-	-	-	-	-
20 TO 99 EMPLOYEES	13	1	-	-	-	4	-	2	1	1	1	1	-	1	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	8	1	-	-	2	1	-	-	-	1	-	-	-	-	-	-	1	1	1	-	-	-
250 EMPLOYEES AND OVER	10	-	-	3	1	-	-	3	-	1	-	-	-	-	1	-	-	-	-	-	-	1
DILLON COUNTY	48	4	-	10	4	23	1	1	2	1	-	-	-	-	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	30	3	-	1	1	21	-	-	1	1	-	-	-	-	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	8	1	-	3	-	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	8	-	-	5	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DORCHESTER COUNTY	62	3	-	4	4	25	1	-	6	-	-	3	-	4	2	3	5	1	-	-	-	1
1 TO 19 EMPLOYEES	42	2	-	2	1	22	-	-	6	-	-	1	-	1	-	2	4	-	-	-	-	1
20 TO 99 EMPLOYEES	13	1	-	2	-	1	1	-	-	-	-	1	-	2	2	1	1	1	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	-	3	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
EDGEFIELD COUNTY	52	1	-	4	2	32	-	-	4	1	-	2	-	-	-	2	3	1	-	-	-	-
1 TO 19 EMPLOYEES	39	-	-	-	-	31	-	-	4	-	-	-	-	-	-	1	3	-	-	-	-	-
20 TO 99 EMPLOYEES	5	1	-	1	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	2	1	-	-	-	-	1	-	-	-	-	-	1	-	1	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FAIRFIELD COUNTY	94	-	-	2	2	82	1	-	-	-	-	-	-	4	-	1	1	-	-	-	-	1
1 TO 19 EMPLOYEES	86	-	-	-	-	81	-	-	-	-	-	-	-	3	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORENCE COUNTY	142	13	1	8	11	41	2	3	12	3	-	4	-	9	-	12	12	5	2	-	3	1
1 TO 19 EMPLOYEES	86	8	-	1	3	29	1	1	10	2	-	2	-	6	-	6	10	2	2	-	2	1
20 TO 99 EMPLOYEES	29	4	-	3	2	11	-	1	1	-	-	1	-	2	-	3	1	-	-	-	-	-
100 TO 249 EMPLOYEES	14	-	1	3	4	1	-	-	1	-	-	-	-	1	-	2	-	-	-	-	1	-
250 EMPLOYEES AND OVER	13	1	-	1	2	-	1	1	-	1	-	1	-	-	-	1	1	3	-	-	-	-
GEORGETOWN COUNTY	71	3	-	2	7	44	-	2	2	1	-	-	-	1	3	3	2	-	-	-	1	-
1 TO 19 EMPLOYEES	53	2	-	-	3	42	-	-	1	1	-	-	-	-	-	2	2	-	-	-	-	-
20 TO 99 EMPLOYEES	10	1	-	1	3	1	-	-	1	-	-	-	-	1	-	1	-	-	-	-	1	-
100 TO 249 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	1	1	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-
GREENVILLE COUNTY	545	31	-	52	35	44	16	13	50	32	2	20	5	16	8	44	104	20	5	2	16	30
1 TO 19 EMPLOYEES	308	13	-	6	7	38	9	6	42	17	2	9	2	9	6	30	69	15	4	1	12	11
20 TO 99 EMPLOYEES	140	13	-	9	15	5	5	3	6	10	-	8	2	6	2	10	27	2	-	1	2	14
100 TO 249 EMPLOYEES	45	5	-	8	7	1	2	3	1	2	-	-	1	1	-	4	2	1	1	-	1	5
250 EMPLOYEES AND OVER	52	-	-	29	6	-	-	1	1	3	-	3	-	-	-	-	6	2	-	-	1	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
GREENWOOD COUNTY	102	7	-	13	5	41	-	-	6	2	1	2	-	5	2	2	4	1	2	3	3	3
1 TO 19 EMPLOYEES	63	3	-	2	-	39	-	-	3	1	1	1	-	4	1	2	2	-	2	1	1	-
20 TO 99 EMPLOYEES	15	3	-	1	2	2	-	-	2	-	-	1	-	-	1	-	1	-	-	-	2	-
100 TO 249 EMPLOYEES	7	-	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	2
250 EMPLOYEES AND OVER	17	1	-	10	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	2	-	1
HAMPTON COUNTY	51	6	-	1	2	32	-	-	1	1	-	3	-	1	-	1	2	-	1	-	-	-
1 TO 19 EMPLOYEES	41	5	-	1	1	27	-	-	1	1	-	1	-	1	-	1	1	-	1	-	-	-
20 TO 99 EMPLOYEES	9	1	-	-	1	5	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
HORRY COUNTY	114	5	-	1	7	45	12	1	13	2	-	1	-	7	-	4	8	2	-	-	6	-
1 TO 19 EMPLOYEES	85	4	-	-	2	41	7	1	12	1	-	-	-	5	-	2	6	-	-	-	4	-
20 TO 99 EMPLOYEES	17	1	-	-	2	2	5	-	1	1	-	1	-	2	-	1	-	-	-	-	1	-
100 TO 249 EMPLOYEES	6	-	-	-	1	2	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-
JASPER COUNTY	17	1	-	-	1	11	-	-	2	-	-	-	-	1	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	16	1	-	-	1	10	-	-	2	-	-	-	-	1	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KERSHAW COUNTY	93	-	-	7	7	61	-	-	4	4	-	1	-	3	-	3	2	-	-	-	1	-
1 TO 19 EMPLOYEES	71	-	-	2	-	57	-	-	2	2	-	-	-	3	-	2	2	-	-	-	1	-
20 TO 99 EMPLOYEES	13	-	-	-	5	4	-	-	2	1	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	3	1	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-
LANCASTER COUNTY	51	2	-	3	1	17	-	-	1	1	-	-	-	5	-	1	10	2	1	-	4	3
1 TO 19 EMPLOYEES	34	1	-	-	-	17	-	-	-	1	-	-	-	3	-	-	8	-	1	-	2	1
20 TO 99 EMPLOYEES	8	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	1	-	-	2	1
100 TO 249 EMPLOYEES	4	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
LAURENS COUNTY	92	3	-	11	5	42	1	1	6	3	-	2	-	4	-	3	9	1	1	-	-	-
1 TO 19 EMPLOYEES	64	2	-	1	1	40	-	-	6	3	-	-	-	2	-	1	6	1	1	-	-	-
20 TO 99 EMPLOYEES	11	1	-	1	1	2	1	-	-	-	-	2	-	-	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	4	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	5	1	-	-	-	-	-	-	-	-	2	-	1	1	-	-	-	-	-
LEE COUNTY	20	2	-	3	3	8	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	14	-	-	-	3	8	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	4	2	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEXINGTON COUNTY	168	10	-	5	9	29	3	3	20	7	-	3	-	8	7	17	24	4	7	2	8	2
1 TO 19 EMPLOYEES	103	7	-	-	2	25	3	-	14	4	-	1	-	3	2	10	18	1	6	1	5	1
20 TO 99 EMPLOYEES	33	2	-	-	3	4	-	1	5	1	-	-	-	5	1	5	2	1	1	1	-	1
100 TO 249 EMPLOYEES	21	1	-	3	4	-	-	2	1	-	-	2	-	-	3	2	1	1	-	-	1	-
250 EMPLOYEES AND OVER	11	-	-	2	-	-	-	-	-	2	-	-	-	-	1	-	3	1	-	-	2	-
MC CORMICK COUNTY	41	1	-	2	2	35	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	38	1	-	1	1	34	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARION COUNTY	43	2	1	8	4	12	3	2	5	-	-	1	-	2	-	-	1	1	1	-	-	-
1 TO 19 EMPLOYEES	22	-	-	3	-	8	2	2	5	-	-	1	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	8	1	-	-	3	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	2	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	9	1	1	3	1	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-
MARLBORO COUNTY	35	2	-	6	4	6	1	1	2	-	-	-	-	4	1	1	3	1	2	-	-	1
1 TO 19 EMPLOYEES	16	-	-	-	1	5	1	1	1	-	-	-	-	3	-	1	2	-	1	-	-	-
20 TO 99 EMPLOYEES	7	2	-	-	1	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	1
100 TO 249 EMPLOYEES	6	-	-	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	3	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-
NEWBERRY COUNTY	92	5	-	6	5	66	-	1	3	-	-	-	-	-	-	1	2	1	1	-	-	1
1 TO 19 EMPLOYEES	70	3	-	2	-	57	-	-	3	-	-	-	-	-	-	1	2	-	1	-	-	1
20 TO 99 EMPLOYEES	11	1	-	-	3	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	9	1	-	4	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-

See footnotes at end of table.

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State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
OCONEE COUNTY	64	2	-	7	12	25	1	-	3	-	-	1	-	3	1	1	3	-	1	2	2	-
1 TO 19 EMPLOYEES	41	2	-	1	2	24	1	-	2	-	-	-	-	3	1	1	3	-	1	-	-	-
20 TO 99 EMPLOYEES	9	-	-	1	6	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	1	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-
ORANGEBURG COUNTY	113	7	-	5	8	48	3	-	6	5	-	-	-	9	-	5	11	2	1	-	3	-
1 TO 19 EMPLOYEES	76	3	-	3	-	37	2	-	5	4	-	-	-	7	-	4	5	2	1	-	3	-
20 TO 99 EMPLOYEES	14	3	-	-	-	7	1	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	10	-	-	-	5	2	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
250 EMPLOYEES AND OVER	13	1	-	2	3	2	-	-	-	1	-	-	-	1	-	1	2	-	-	-	-	-
PICKENS COUNTY	117	4	-	23	7	36	-	1	8	4	-	3	-	1	2	5	12	1	5	-	2	3
1 TO 19 EMPLOYEES	70	4	-	3	2	32	-	1	7	3	-	2	-	1	-	4	7	-	3	-	1	-
20 TO 99 EMPLOYEES	13	-	-	-	1	4	-	-	1	-	-	-	-	-	1	1	1	-	1	-	-	3
100 TO 249 EMPLOYEES	11	-	-	6	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
250 EMPLOYEES AND OVER	23	-	-	14	1	-	-	-	-	1	-	1	-	-	1	-	2	1	1	-	1	-
RICHLAND COUNTY	223	11	-	7	16	25	2	3	46	12	2	3	-	17	-	27	16	6	6	4	15	5
1 TO 19 EMPLOYEES	143	5	-	3	6	20	1	1	39	7	2	3	-	7	-	15	9	3	4	4	11	3
20 TO 99 EMPLOYEES	51	3	-	1	5	5	1	1	5	3	-	-	-	8	-	6	5	1	2	-	3	2
100 TO 249 EMPLOYEES	16	3	-	1	4	-	-	-	-	-	-	-	-	2	-	5	1	-	-	-	-	-
250 EMPLOYEES AND OVER	13	-	-	2	1	-	-	1	2	2	-	-	-	-	-	1	1	2	-	-	1	-
SALUDA COUNTY	43	5	-	4	6	20	-	-	1	2	-	-	-	2	-	-	-	1	1	-	-	1
1 TO 19 EMPLOYEES	34	3	-	3	2	19	-	-	1	2	-	-	-	1	-	-	-	1	1	-	-	1
20 TO 99 EMPLOYEES	4	1	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	1	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPARTANBURG COUNTY	321	13	-	64	21	28	1	11	30	22	-	13	1	11	10	16	44	4	4	3	7	18
1 TO 19 EMPLOYEES	177	8	-	13	9	23	1	3	27	14	-	5	-	6	8	8	34	2	3	2	7	4
20 TO 99 EMPLOYEES	60	1	-	19	4	3	-	3	2	3	-	6	1	2	2	4	5	-	-	-	-	5
100 TO 249 EMPLOYEES	41	3	-	9	2	1	-	4	1	3	-	1	-	2	-	3	3	2	-	1	-	6
250 EMPLOYEES AND OVER	43	1	-	23	6	1	-	1	-	2	-	1	-	1	-	1	2	-	1	-	-	3
SUMTER COUNTY	74	8	-	4	6	15	4	1	9	2	-	1	-	2	2	8	5	2	1	1	3	-
1 TO 19 EMPLOYEES	40	3	-	-	2	11	1	1	8	1	-	1	-	-	1	6	4	-	-	-	1	-
20 TO 99 EMPLOYEES	17	4	-	1	2	3	-	-	1	-	-	-	-	2	-	-	1	-	1	-	2	-
100 TO 249 EMPLOYEES	8	-	-	1	1	1	1	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-
250 EMPLOYEES AND OVER	9	1	-	2	1	-	2	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-
UNION COUNTY	43	-	-	15	3	15	-	-	2	3	-	1	-	2	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	23	-	-	2	-	15	-	-	1	2	-	-	-	2	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	1	2	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	8	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
WILLIAMSBURG COUNTY	46	2	-	2	4	21	1	-	3	4	-	3	-	-	-	-	3	-	1	-	2	-
1 TO 19 EMPLOYEES	30	2	-	1	-	16	-	-	3	2	-	-	-	-	-	-	3	-	1	-	2	-
20 TO 99 EMPLOYEES	10	-	-	-	2	5	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
YORK COUNTY	169	5	-	33	18	38	-	4	10	9	1	6	-	8	2	8	16	2	1	-	4	4
1 TO 19 EMPLOYEES	112	4	-	13	8	37	-	-	8	7	-	2	-	7	-	6	13	2	1	-	3	1
20 TO 99 EMPLOYEES	28	1	-	5	6	-	-	-	2	1	1	2	-	1	2	1	3	-	-	-	1	2
100 TO 249 EMPLOYEES	17	-	-	7	3	1	-	2	-	-	-	2	-	-	-	1	-	-	-	-	-	1
250 EMPLOYEES AND OVER	12	-	-	8	1	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

South Dakota

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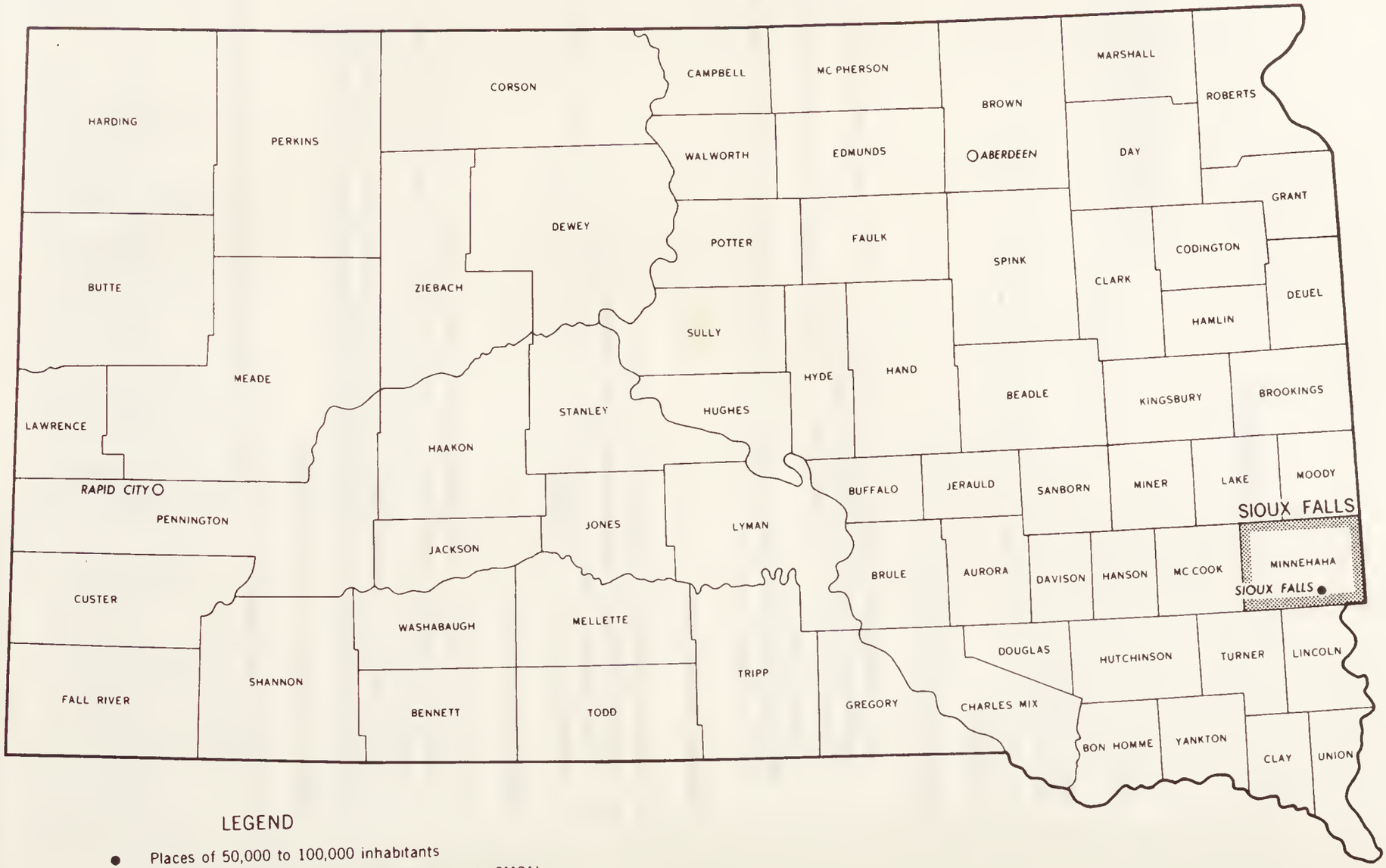
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SOUTH DAKOTA



LEGEND

- ● Places of 50,000 to 100,000 inhabitants
- ○ Places of 25,000 to 50,000 inhabitants outside SMSA's

Standard Metropolitan Statistical Areas (SMSA's)

SCALE
0 10 20 30 40 50 MILES

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 22.5 thousand persons were employed in South Dakota's manufacturing establishments. This figure represented an increase of 29 percent from the 1972 figure of 17.4 thousand workers.

The total value added by manufacture for the State amounted to $612 million in 1977, an increase of approximately 115 percent from the 1972 figure of $285 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were food and kindred products; machinery, except electrical; lumber and wood products; and printing and publishing. They accounted for approximately 66 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 72 percent of the State's employment.

The most important counties in the State ranked by employment were Minnehaha, Pennington, Brown, and Yankton. They accounted for approximately 58 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 63 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
South Dakota:						
1977	22.5	251.4	22.4	249.0	.1	2.4
1972	17.4	134.5	(D)	(D)	(D)	(D)
1967	15.5	92.5	(D)	(D)	(D)	(D)
1963	13.2	70.0	13.1	69.4	.1	.5
STANDARD METROPOLITAN STATISTICAL AREA						
Sioux Falls:						
1977	7.6	100.5	(D)	(D)	(D)	(D)
1972	6.9	64.6	(D)	(D)	(D)	(D)
1967	6.9	47.0	(D)	(D)	(D)	(D)
1963	6.1	36.8	6.0	36.5	(Z)	.2

(D) Withheld to avoid disclosing operations of individual companies. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
	SOUTH DAKOTA														
1977 CENSUS.	740	195	22.5	251.4	16.7	32.0	169.1	611.6	1 184.7	1 793.7	36.7	.11	100	100	19 596.9
1976 ASM....	(NA)	(NA)	21.8	216.5	16.3	31.9	149.8	493.9	1 126.7	1 608.5	48.8	.12	97	96	18 753.0
1975 ASM....	(NA)	(NA)	21.6	189.4	16.0	29.0	129.0	421.1	1 077.8	1 494.4	36.5	.12	96	94	18 302.2
1974 ASM....	(NA)	(NA)	20.9	177.2	15.6	29.7	119.5	385.3	1 010.0	1 389.0	30.7	.11	93	102	19 844.8
1973 ASM....	(NA)	(NA)	20.0	159.2	14.9	28.4	106.4	419.8	873.3	1 274.9	32.3	.10	89	102	19 897.9
1972 CENSUS.	606	171	17.4	134.3	12.9	25.1	89.4	284.5	658.2	936.6	20.1	.09	77	98	19 028.7
1971 ASM....	(NA)	(NA)	16.1	118.8	11.3	22.5	78.4	226.2	516.8	741.3	13.5	.09	72	94	18 363.1
1970 ASM....	(NA)	(NA)	17.2	120.7	12.1	23.8	80.1	230.2	550.3	780.0	12.3	.09	77	99	19 217.2
1969 ASM....	(NA)	(NA)	16.6	107.2	12.2	23.9	72.1	213.5	540.6	751.9	6.6	.08	74	103	20 035.5
1968 ASM....	(NA)	(NA)	16.6	101.5	12.3	24.1	69.2	193.9	523.3	714.6	10.7	.09	74	100	19 527.6
1967 CENSUS.	604	137	15.5	92.5	11.4	22.4	61.7	171.3	494.5	663.3	8.2	.08	69	99	19 323.2
1966 ASM....	(NA)	(NA)	14.1	81.0	10.3	21.4	55.5	166.3	493.0	653.1	7.7	.07	63	98	19 024.5
1965 ASM....	(NA)	(NA)	14.1	76.2	10.4	21.1	52.2	154.2	436.0	586.5	10.9	.08	63	92	18 010.2
1964 ASM....	(NA)	(NA)	13.7	73.6	10.2	21.2	50.2	140.8	431.0	571.3	9.8	.08	61	89	17 268.5
1963 CENSUS.	586	115	13.2	70.0	9.6	19.9	48.0	140.0	(NA)	(NA)	7.3	.08	59	87	16 958.4

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all eatablishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	SOUTH DAKOTA								
1977 CENSUS.....	11 188	74	1 920	5.28	66	80	27 216	41	19.09
1976 ASM.....	9 931	75	1 957	4.70	70	84	22 656	44	15.48
1975 ASM.....	8 769	74	1 813	4.45	72	85	19 495	45	14.52
1974 ASM.....	8 478	75	1 904	4.02	78	92	18 435	46	12.97
1973 ASM.....	7 960	74	1 906	3.75	68	81	20 990	38	14.78
1972 CENSUS.....	7 730	74	1 946	3.56	70	85	16 351	47	11.33
1971 ASM.....	7 379	70	1 991	3.48	70	86	14 050	53	10.05
1970 ASM.....	7 017	70	1 967	3.37	71	86	13 384	52	9.67
1969 ASM.....	6 458	73	1 959	3.02	72	86	12 861	50	8.93
1968 ASM.....	6 114	74	1 959	2.87	73	87	11 681	52	8.05
1967 CENSUS.....	5 968	74	1 965	2.75	75	88	11 052	54	7.65
1966 ASM.....	5 745	73	2 078	2.59	75	88	11 794	49	7.77
1965 ASM.....	5 404	74	2 029	2.47	74	87	10 936	49	7.31
1964 ASM.....	5 372	74	2 078	2.37	75	88	10 277	52	6.64
1963 CENSUS.....	5 303	73	2 073	2.41	(NA)	(NA)	10 606	50	7.04

Note: For qualificationa to data, aee footnotes on table 2a.

(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	740	606
With 1 to 19 employees	do	545	455
With 20 to 99 employees	do	143	112
With 100 employees or more	do	52	39
All employees, average for year[1]	1,000	22.5	17.4
Payroll for year, all employees[1]	mil. dollars	251.4	134.5
Production workers:			
Average for year	1,000	16.7	12.9
March	do	16.0	12.4
May	do	16.5	12.9
August	do	17.2	13.2
November	do	16.9	13.3
Hours	millions	32.0	25.1
January to March	do	7.9	6.0
April to June	do	7.8	6.3
July to September	do	8.2	6.4
October to December	do	8.1	6.4
Wages	mil. dollars	169.1	89.4
Cost of materials, etc.[2]	do	1 184.7	658.2
Materials, parts, containers, etc., consumed	do	1 100.1	623.4
Resales	do	58.5	22.4
Fuels consumed	do	12.5	3.6
Purchased electric energy	do	8.7	3.3
Contract work	do	5.0	5.7
Value of shipments, including resales[2]	do	1 793.7	936.6
Value of resales	do	66.8	24.2
Value added by manufacture	do	611.6	284.5
Manufacturers' inventories:			
Beginning of year	do	136.2	50.3
Finished products	do	50.2	20.7
Work in process	do	27.7	9.8
Materials, supplies, fuel, etc.	do	58.3	19.8
End of year	do	149.0	59.8
Finished products	do	47.9	23.7
Work in process	do	33.6	12.2
Materials, supplies, fuel, etc.	do	67.5	23.9
Capital expenditures for plant and equipment	do	40.2	21.3
New capital expenditures	do	36.7	20.1
New buildings and other structures	do	10.5	6.3
New machinery and equipment	do	26.2	13.8
Used capital expenditures	do	3.5	1.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	343.4	3
New capital expenditures	32.1	10
Used capital expenditures	(3.1)	30
Retirements	8.2	6
End of year	370.5	3
Buildings and other structures:		
Beginning of year	116.4	5
New capital expenditures	(6.5)	20
Used capital expenditures	.7	6
Retirements	(1.3)	20
End of year	122.3	4
Machinery and equipment:		
Beginning of year	227.1	3
New capital expenditures	25.7	10
Automobiles, trucks, etc., for highway use	5.9	(NA)
Computers and peripheral data processing equip.	1.9	(NA)
All other	14.8	(NA)
New machinery and equipment, n.s.k.	3.1	(NA)
Used capital expenditures	(2.4)	39
Retirements	6.9	5
End of year	248.2	3

Item	Amount (million dollars)	Standard error of estimate (percent)
Rental payments:		
Total	6.9	11
Buildings and other structures	2.3	13
Machinery and equipment	4.6	14
Depreciation charges during 1977:		
Total	25.8	3
Buildings and other structures	5.4	8
Machinery and equipment	20.4	3
Supplemental labor costs:		
Total	42.7	2
Legal costs	18.2	2
Voluntary costs	24.5	2
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	(1.0)	33
Response coverage ratio (percent)	48	(X)
Machinery	(5.0)	26
Response coverage ratio (percent)	54	(X)
Cost of purchased communication services	(2.4)	32
Response coverage ratio (percent)	53	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as unverse figures.
Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
South Dakota	-	**740**	**195**	**22.5**	**251.4**	**16.7**	**32.0**	**169.1**	611.6	**1 184.7**	**1 793.7**	**36.7**	**17.4**	**284.5**
STANDARD METROPOLITAN STATISTICAL AREAS														
Sioux Falls	-	116	46	7.6	100.5	5.2	10.1	67.4	203.1	552.4	754.5	7.7	6.9	115.2
COUNTIES														
Aurora	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Beadle	-	34	12	0.9	12.7	0.7	1.4	9.6	29.4	140.5	169.1	1.3	0.9	16.6
Bennett	-	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bon Homme	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Brookings	-	20	6	0.8	9.7	0.6	1.2	5.9	45.9	33.6	79.0	2.5	0.5	18.2
Brown	-	39	12	1.5	16.3	1.1	2.0	10.1	57.7	23.7	81.3	5.3	1.4	17.5
Brule	E8	6	-	(Z)	0.3	(Z)	(Z)	0.1	0.8	1.2	2.0	0.1	(Z)	(NA)
Buffalo	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Butte	E2	13	2	0.1	1.2	0.1	0.2	0.9	3.5	2.5	5.9	(D)	(Z)	(NA)
Campbell	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Charles Mix	-	10	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Clark	-	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clay	-	14	4	0.2	2.3	0.2	0.3	1.4	5.5	8.1	13.3	(D)	0.2	2.8
Codington	-	35	11	1.2	11.2	0.9	1.7	7.8	34.7	33.4	68.0	1.0	0.8	12.6
Corson	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Custer	E1	14	3	0.2	1.9	0.1	0.3	1.5	4.5	1.7	6.1	0.5	0.1	2.6
Davison	-	25	9	0.7	7.1	0.5	0.9	5.0	29.7	39.3	68.8	1.3	0.5	14.7
Day	-	9	3	0.3	1.4	0.2	0.3	0.9	2.7	4.7	7.6	(D)	(Z)	(NA)
Deuel	E4	6	-	(Z)	0.2	(Z)	(Z)	0.1	0.5	0.8	1.3	0.1	(Z)	(NA)
Dewey	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Douglas	E0	6	-	(Z)	0.1	(Z)	(Z)	0.1	0.3	0.6	0.9	(Z)	(Z)	(Z)
Edmunds	E8	5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Fall River	E3	8	1	0.1	0.5	(Z)	0.1	0.4	1.0	0.4	1.5	(Z)	0.1	0.8
Faulk	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grant	-	11	6	0.5	4.9	0.4	0.8	3.9	10.0	43.5	53.7	0.9	0.4	5.2
Gregory	E1	11	-	(Z)	0.3	(Z)	0.1	0.2	0.6	2.8	3.4	(Z)	(D)	(D)
Haakon	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hamlin	-	7	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hand	E9	6	-	(Z)	0.3	(Z)	(Z)	0.2	1.0	0.8	1.8	(Z)	(Z)	(NA)
Hanson	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Harding	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Hughes	-	9	2	0.1	0.8	0.1	0.1	0.5	1.5	1.5	3.0	(Z)	0.1	1.4
Hutchinson	-	13	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hyde	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jackson	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jerauld	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kingsbury	E4	11	2	0.1	0.7	0.1	0.1	0.4	1.6	2.5	4.1	0.1	0.1	0.9
Lake	-	11	7	0.5	4.1	0.4	0.7	3.1	12.6	16.4	28.9	0.2	0.4	4.7
Lawrence	-	27	5	0.5	4.7	0.4	0.8	3.9	7.5	10.6	17.0	(D)	0.3	5.1
Lincoln	-	16	6	0.6	5.2	0.5	1.0	3.8	9.1	11.4	21.3	1.2	0.7	5.3
Lyman	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
McCook	E1	11	1	0.2	1.5	0.1	0.2	1.0	2.7	3.4	6.4	(D)	0.1	2.0
McPherson	E3	7	-	(Z)	0.2	(Z)	(Z)	0.1	0.6	1.4	1.9	(Z)	(D)	(D)
Marshall	E1	8	3	0.2	1.2	0.1	0.2	0.9	3.6	4.7	8.4	(D)	(Z)	(NA)
Meade	-	13	4	0.3	2.0	0.2	0.3	1.7	3.5	2.0	5.5	(D)	0.1	1.7
Mellette	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Miner	E2	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Minnehaha	-	116	46	7.6	100.5	5.2	10.1	67.4	203.1	552.4	754.5	7.7	6.9	115.2
Moody	E5	6	-	(Z)	0.2	(Z)	(Z)	0.1	0.4	0.5	0.9	(Z)	(D)	(D)
Pennington	-	76	19	2.7	29.6	1.8	3.6	17.1	71.2	107.8	179.0	4.4	1.5	28.3
Perkins	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Potter	-	5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Roberts	-	8	1	0.1	0.4	0.1	0.1	0.3	0.6	0.5	1.1	(Z)	(Z)	(NA)
Sanborn	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Shannon	E1	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Spink	E2	4	-	(Z)	0.3	(Z)	(Z)	0.1	0.8	1.8	2.5	(D)	0.1	0.8
Stanley	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sully	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Todd	E2	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Tripp	E2	5	-	(Z)	0.2	(Z)	(Z)	0.1	0.4	0.5	1.0	(Z)	(Z)	(NA)
Turner	E3	9	-	(Z)	0.3	(Z)	(Z)	0.2	1.4	1.5	2.9	(Z)	(Z)	(NA)
Union	-	19	6	0.8	6.6	0.7	1.3	4.7	11.8	17.6	29.2	0.4	0.2	2.8
Walworth	-	6	1	0.1	0.8	0.1	0.1	0.5	1.6	1.7	3.3	(D)	0.1	1.3
Yankton	-	21	9	1.3	12.5	1.0	2.1	8.6	24.0	38.9	63.2	1.2	1.0	10.7
CITIES														
Aberdeen	-	31	11	1.4	15.5	1.0	1.9	9.5	56.6	22.0	78.6	5.2	1.3	16.6
Brookings	-	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Huron	-	31	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Madison	-	11	7	0.5	4.1	0.4	0.7	3.1	12.6	16.4	28.9	0.2	(NA)	(NA)
Mitchell	-	21	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	14.3
Rapid City	-	63	17	2.5	28.0	1.7	3.3	16.1	67.4	103.0	170.5	4.2	1.3	24.9
Sioux Falls	-	94	39	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.6	107.6
Watertown	-	32	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Yankton	-	19	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).
[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	–	**740**	**195**	**22.5**	**251.4**	**16.7**	**32.0**	**169.1**	**811.6**	**1 184.7**	**1 793.7**	**36.7**	**17.4**	**284.5**
20	**Food and kindred products**	–	**122**	**54**	**8.2**	**106.6**	**5.9**	**11.0**	**74.3**	**225.5**	**853.7**	**1 078.6**	**9.4**	**7.3**	**127.0**
201	Meat products	–	22	14	4.9	72.4	3.9	7.1	56.5	138.7	604.6	742.2	3.7	4.5	77.2
2011	Meat packing plants	–	13	8	4.4	70.1	3.5	6.5	54.7	128.5	588.5	716.3	3.5	FF	(D)
2017	Poultry and egg processing	–	3	3	0.3	1.1	0.3	0.3	0.9	3.5	10.3	13.4	0.1	(NA)	(NA)
202	Dairy products	–	35	14	1.3	13.1	0.7	1.4	6.5	30.7	152.6	183.7	3.5	1.2	23.7
2022	Cheese, natural and processed	–	16	4	0.4	3.6	0.4	0.7	3.1	9.0	63.5	72.9	1.4	BB	(D)
2023	Condensed and evaporated milk	–	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2026	Fluid milk	–	11	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	7.8
204	Grain mill products	–	27	8	0.5	6.0	0.3	0.5	2.9	17.4	59.8	77.5	1.0	0.5	9.9
2048	Prepared feeds, n.e.c.	–	23	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
205	Bakery products	–	15	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2051	Bread, cake, and related products	–	14	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2052	Cookies and crackers	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
208	Beverages	E1	9	8	0.4	3.6	0.2	0.3	1.8	8.1	8.9	17.0	(D)	0.3	3.8
2086	Bottled and canned soft drinks	E1	8	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
22	**Textile mill products**	–	**3**	**2**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(NA)**	**(NA)**
229	Miscellaneous textile goods	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2297	Nonwoven fabrics	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
23	**Apparel and other textile products**	–	**22**	**8**	**1.0**	**6.3**	**0.9**	**1.7**	**4.9**	**7.8**	**11.6**	**18.7**	**0.7**	**CC**	**(D)**
232	Men's and boys' furnishings	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2329	Men's and boys' clothing, n.e.c.	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
233	Women's and misses' outerwear	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2337	Women's and misses' suits and coats	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	E1	17	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2392	House furnishings, n.e.c.	–	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
24	**Lumber and wood products**	–	**81**	**22**	**2.0**	**19.1**	**1.6**	**3.1**	**14.1**	**40.5**	**61.1**	**100.6**	**(D)**	**1.5**	**23.8**
242	Sawmills and planing mills	–	21	7	0.7	6.7	0.6	1.1	5.6	11.3	12.3	22.2	(D)	0.3	7.1
2421	Sawmills and planing mills, general	–	21	7	0.7	6.7	0.6	1.1	5.6	11.3	12.3	22.2	(D)	0.3	7.1
243	Millwork, plywood, and structural members	–	17	4	0.4	3.8	0.3	0.6	2.8	11.6	22.0	33.9	(D)	BB	(D)
2431	Millwork	–	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
245	Wood buildings and mobile homes	–	11	8	0.7	6.6	0.5	1.1	4.0	12.9	23.2	36.1	(D)	CC	(D)
2451	Mobile homes	–	5	4	0.3	3.1	0.3	0.6	2.2	5.8	12.9	18.7	(D)	BB	(D)
2452	Prefabricated wood buildings	E1	6	4	0.3	3.5	0.2	0.4	1.7	7.1	10.3	17.4	(D)	AA	(D)
27	**Printing and publishing**	**E1**	**183**	**25**	**1.7**	**18.1**	**1.0**	**1.7**	**9.6**	**37.1**	**16.7**	**53.9**	**2.1**	**1.6**	**22.9**
2711	Newspapers	E1	112	15	1.0	10.2	0.5	1.0	4.9	24.9	7.0	31.9	0.5	1.1	16.0
275	Commercial printing	–	55	8	0.5	5.8	0.3	0.6	3.7	9.3	7.5	16.7	(D)	0.4	5.7
2751	Commercial printing, letterpress	–	32	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.0
2752	Commercial printing, lithographic	–	21	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
30	**Rubber and miscellaneous plastics products**	**E1**	**18**	**7**	**0.6**	**5.4**	**0.5**	**1.0**	**4.7**	**13.4**	**10.8**	**24.2**	**1.1**	**0.4**	**5.7**
3069	Fabricated rubber products, n.e.c.	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3079	Miscellaneous plastics products	E3	17	6	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
31	**Leather and leather products**	-	**3**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(NA)**	**(NA)**
32	**Stone, clay, and glass products**	-	**88**	**15**	**1.4**	**18.8**	**1.1**	**2.3**	**11.9**	**53.1**	**37.1**	**91.3**	**3.6**	**0.8**	**12.2**
3241	Cement, hydraulic	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
327	Concrete, gypsum, and plaster products	E1	69	9	0.7	8.2	0.5	1.0	5.6	20.3	22.6	43.2	1.9	CC	(D)
3272	Concrete products, n.e.c.	-	16	4	0.3	3.4	0.2	0.4	2.2	8.1	5.0	13.4	0.4	BB	(D)
3273	Ready-mixed concrete	E2	49	4	0.3	4.3	0.3	0.6	3.2	11.1	16.5	27.5	1.5	0.2	4.8
3281	Cut stone and stone products	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products	E1	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3293	Gaskets, packing, and sealing devices	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
34	**Fabricated metal products**	-	**35**	**10**	**1.0**	**11.8**	**0.8**	**1.5**	**7.2**	**30.7**	**39.3**	**69.2**	**0.9**	**CC**	**(D)**
342	Cutlery, hand tools, and hardware	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3429	Hardware, n.e.c.	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
344	Fabricated structural metal products	-	21	8	0.7	8.7	0.5	1.0	5.0	24.7	33.4	57.5	0.4	CC	(D)
3441	Fabricated structural metal	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3443	Fabricated plate work (boiler shops)	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3444	Sheet metal work	-	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
35	**Machinery, except electrical**	-	**75**	**23**	**3.0**	**32.0**	**2.4**	**4.8**	**22.2**	**70.6**	**81.6**	**151.6**	**3.5**	**2.2**	**39.8**
352	Farm and garden machinery	-	23	8	0.7	7.3	0.6	1.2	5.4	18.7	19.9	39.6	1.3	0.4	7.0
3523	Farm machinery and equipment	-	23	8	0.7	7.3	0.6	1.2	5.4	18.7	19.9	39.6	1.3	0.4	7.0
353	Construction and related machinery	-	12	6	0.6	7.3	0.4	1.0	5.1	16.3	13.0	29.1	0.3	0.3	6.8
3531	Construction machinery	-	5	3	0.2	2.4	0.1	0.3	1.5	6.3	5.2	11.4	0.1	(NA)	(NA)
3535	Conveyors and conveying equipment	-	3	3	0.4	4.7	0.3	0.6	3.6	9.5	7.5	16.9	(D)	AA	(D)
354	Metalworking machinery	-	6	4	0.3	4.0	0.2	0.5	2.7	8.8	3.3	12.0	(D)	AA	(D)
3541	Machine tools, metal cutting types	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
356	General industrial machinery	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3566	Speed changers, drives, and gears	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
357	Office and computing machines	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3573	Electronic computing equipment	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
358	Refrigeration and service machinery	-	6	3	0.2	2.2	0.2	0.4	1.4	4.5	6.0	10.3	(D)	(NA)	(NA)
36	**Electric and electronic equipment**	-	**9**	**5**	**0.8**	**5.7**	**0.6**	**1.2**	**3.4**	**11.3**	**5.1**	**16.5**	**0.3**	**CC**	**(D)**
367	Electronic components and accessories	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3677	Electronic coils and transformers	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3679	Electronic components, n.e.c.	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
37	**Transportation equipment**	-	**26**	**8**	**0.5**	**5.7**	**0.4**	**0.8**	**3.8**	**11.6**	**18.1**	**29.5**	**(D)**	**BB**	**(D)**
371	Motor vehicles and equipment	-	15	4	0.3	4.1	0.3	0.5	2.5	9.0	13.5	22.5	(D)	AA	(D)
3715	Truck trailers	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
38	**Instruments and related products**	-	**7**	**4**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**BB**	**(D)**
382	Measuring and controlling devices	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3825	Instruments to measure electricity	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
384	Medical instruments and supplies	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3842	Surgical appliances and supplies	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
39	**Miscellaneous manufacturing industries**	-	**31**	**4**	**0.3**	**2.5**	**0.3**	**0.6**	**1.8**	**7.3**	**6.9**	**14.3**	**(D)**	**0.2**	**1.7**
391	Jewelry, silverware, and plated ware	-	5	3	0.2	1.4	0.2	0.4	1.1	4.9	4.5	9.5	(D)	(NA)	(NA)
3911	Jewelry, precious metal	-	5	3	0.2	1.4	0.2	0.4	1.1	4.9	4.5	9.5	(D)	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Sioux Falls SMSA	-	**116**	**46**	**7.6**	**100.5**	**5.2**	**10.1**	**67.4**	**203.1**	**552.4**	**754.5**	**7.7**	**6.9**	**115.2**
20	Food and kindred products	-	20	14	4.6	68.7	3.1	6.0	48.0	136.4	469.4	605.8	3.1	4.5	77.5
24	Lumber and wood products	-	10	3	0.3	3.0	0.2	0.5	2.3	10.2	20.4	30.9	(D)	(NA)	(NA)
27	Printing and publishing	-	23	7	0.5	6.4	0.4	0.7	4.2	13.8	7.2	20.9	1.4	0.4	7.8
275	Commercial printing	-	13	4	0.3	3.6	0.2	0.3	2.2	5.7	4.7	10.4	(D)	(NA)	(NA)
34	Fabricated metal products	-	10	5	0.6	7.4	0.5	0.9	4.5	16.5	22.2	38.1	0.5	0.5	8.1

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Beadle County	-	**34**	**12**	**0.9**	**12.7**	**0.7**	**1.4**	**9.6**	**29.4**	**140.5**	**169.1**	**1.3**	**0.9**	**16.6**
	Brookings County	-	**20**	**6**	**0.8**	**9.7**	**0.6**	**1.2**	**5.9**	**45.9**	**33.6**	**79.0**	**2.5**	**0.5**	**18.2**
	Brown County	-	**39**	**12**	**1.5**	**16.3**	**1.1**	**2.0**	**10.1**	**57.7**	**23.7**	**81.3**	**5.3**	**1.4**	**17.5**
	Codington County	-	**35**	**11**	**1.2**	**11.2**	**0.9**	**1.7**	**7.8**	**34.7**	**33.4**	**68.0**	**1.0**	**0.8**	**12.6**
	Davison County	-	**25**	**9**	**0.7**	**7.1**	**0.5**	**0.9**	**5.0**	**29.7**	**39.3**	**68.8**	**1.3**	**0.5**	**14.7**
	Grant County	-	**11**	**6**	**0.5**	**4.9**	**0.4**	**0.8**	**3.9**	**10.0**	**43.5**	**53.7**	**0.9**	**0.4**	**5.2**
	Lake County	-	**11**	**7**	**0.5**	**4.1**	**0.4**	**0.7**	**3.1**	**12.6**	**16.4**	**28.9**	**0.2**	**0.4**	**4.7**
	Lawrence County	-	**27**	**5**	**0.5**	**4.7**	**0.4**	**0.8**	**3.9**	**7.5**	**10.6**	**17.0**	**(D)**	**0.3**	**5.1**
	Lincoln County	-	**16**	**6**	**0.6**	**5.2**	**0.5**	**1.0**	**3.8**	**9.1**	**11.4**	**21.3**	**1.2**	**0.7**	**5.3**
	Minnehaha County (Coextensive with Sioux Falls, S. Dak., SMSA; see table 6.)														
	Pennington County	-	**76**	**19**	**2.7**	**29.6**	**1.8**	**3.6**	**17.1**	**71.2**	**107.8**	**179.0**	**4.4**	**1.5**	**28.3**
20	Food and kindred products	-	11	6	0.6	7.6	0.3	0.6	4.1	15.2	44.9	60.1	(D)	0.5	7.1
	Union County	-	**19**	**6**	**0.8**	**6.6**	**0.7**	**1.3**	**4.7**	**11.8**	**17.6**	**29.2**	**0.4**	**0.2**	**2.8**
	Yankton County	-	**21**	**9**	**1.3**	**12.5**	**1.0**	**2.1**	**8.6**	**24.0**	**38.9**	**63.2**	**1.2**	**1.0**	**10.7**

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Aberdeen	-	31	11	1.4	15.5	1.0	1.9	9.5	56.6	22.0	78.6	5.2	1.3	16.6
	Madison	-	11	7	0.5	4.1	0.4	0.7	3.1	12.6	16.4	28.9	0.2	(NA)	(NA)
	Rapid City	-	63	17	2.5	28.0	1.7	3.3	16.1	67.4	103.0	170.5	4.2	1.3	24.9

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportstion equipment; 38--instruments snd related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
SOUTH DAKOTA	740	122	-	3	22	81	6	5	183	15	3	18	3	88	1	35	75	9	26	7	31	7
1 TO 4 EMPLOYEES	387	38	-	1	7	40	5	4	126	9	-	7	2	50	-	15	42	1	15	3	18	4
5 TO 9 EMPLOYEES	88	13	-	-	4	13	-	-	19	2	2	3	-	10	-	4	8	1	4	-	5	-
10 TO 19 EMPLOYEES	70	17	-	-	3	6	1	-	13	1	-	1	-	13	-	6	2	2	1	-	4	-
20 TO 49 EMPLOYEES	85	19	-	1	3	11	-	1	16	3	1	5	-	9	-	3	5	1	1	2	2	2
50 TO 99 EMPLOYEES	58	21	-	-	1	6	-	-	5	-	-	1	-	3	1	3	9	2	4	-	1	1
100 TO 249 EMPLOYEES	39	9	-	-	3	5	-	-	4	-	-	-	1	3	-	4	7	-	1	1	1	-
250 TO 499 EMPLOYEES	10	4	-	1	1	-	-	-	-	-	-	1	-	-	-	-	1	2	-	-	-	-
500 TO 999 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-
2500 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AURORA COUNTY	3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
BEADLE COUNTY	34	9	-	-	-	2	-	-	8	2	2	-	-	2	-	2	4	-	2	-	1	-
1 TO 19 EMPLOYEES	22	3	-	-	-	1	-	-	7	2	1	-	-	1	-	1	3	-	2	-	1	-
20 TO 99 EMPLOYEES	11	5	-	-	-	1	-	-	1	-	1	-	-	1	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BENNETT COUNTY	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
BON HOMME COUNTY	6	1	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	1	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
BROOKINGS COUNTY	20	1	-	-	-	-	-	-	6	-	-	1	-	5	-	1	-	1	2	2	1	-
1 TO 19 EMPLOYEES	14	-	-	-	-	-	-	-	5	-	-	-	-	5	-	-	-	-	2	1	1	-
20 TO 99 EMPLOYEES	5	1	-	-	-	-	-	-	1	-	-	1	-	-	-	1	-	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
BROWN COUNTY	39	6	-	1	1	1	1	-	8	2	1	1	-	3	-	4	5	-	3	-	1	1
1 TO 19 EMPLOYEES	27	3	-	-	1	-	1	-	5	2	1	-	-	3	-	4	2	-	3	-	1	1
20 TO 99 EMPLOYEES	8	3	-	-	-	1	-	-	2	-	-	1	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
BRULE COUNTY	6	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	6	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	1	-	-	-
BUFFALO COUNTY	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
BUTTE COUNTY	13	1	-	-	-	3	-	-	1	-	-	-	-	5	-	-	2	-	1	-	-	-
1 TO 19 EMPLOYEES	11	1	-	-	-	3	-	-	1	-	-	-	-	3	-	-	2	-	1	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
CAMPBELL COUNTY	5	1	-	-	-	-	-	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHARLES MIX COUNTY	10	3	-	1	-	-	-	-	4	-	-	-	-	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	9	2	-	1	-	-	-	-	4	-	-	-	-	2	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLARK COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLAY COUNTY	14	3	-	-	-	-	-	-	5	-	-	-	-	1	-	1	2	1	-	-	1	-
1 TO 19 EMPLOYEES	10	2	-	-	-	-	-	-	4	-	-	-	-	1	-	-	1	1	-	-	1	-
20 TO 99 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
CODINGTON COUNTY	35	7	-	-	1	4	-	-	5	-	-	3	-	1	-	2	6	-	3	-	3	-
1 TO 19 EMPLOYEES	24	2	-	-	1	3	-	-	4	-	-	2	-	1	-	1	5	-	2	-	3	-
20 TO 99 EMPLOYEES	8	4	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	1	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
CORSON COUNTY	2	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUSTER COUNTY	14	-	-	-	-	12	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	11	-	-	-	-	9	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAVISON COUNTY	25	9	-	-	1	1	-	-	4	-	-	-	-	3	-	-	3	1	1	1	1	-
1 TO 19 EMPLOYEES	16	5	-	-	1	1	-	-	2	-	-	-	-	3	-	-	2	1	-	-	1	-
20 TO 99 EMPLOYEES	8	3	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	1	1	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAY COUNTY	9	2	-	-	1	-	-	-	1	-	-	2	-	2	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	2	-	-	-	-	-	-	1	-	-	1	-	2	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEUEL COUNTY	6	1	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	6	1	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	-	1	-
DEWEY COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
DOUGLAS COUNTY	6	1	-	-	-	-	-	-	2	-	-	-	-	2	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	1	-	-	-	-	-	-	2	-	-	-	-	2	-	1	-	-	-	-	-	-
EDMUNDS COUNTY	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	1	-
FALL RIVER COUNTY	8	-	-	-	-	1	-	-	2	1	-	-	1	-	-	-	2	-	-	-	1	-
1 TO 19 EMPLOYEES	7	-	-	-	-	-	-	-	2	1	-	-	1	-	-	-	2	-	-	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FAULK COUNTY	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
GRANT COUNTY	11	3	-	-	-	-	-	-	3	-	-	-	-	4	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	-	-	-	2	-	-	-	-	2	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	5	2	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREGORY COUNTY	11	1	-	-	-	1	-	-	4	-	-	-	-	3	-	-	-	-	-	-	1	1
1 TO 19 EMPLOYEES	11	1	-	-	-	1	-	-	4	-	-	-	-	3	-	-	-	-	-	-	1	1
HAAKON COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
HAMLIN COUNTY	7	2	-	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	1	-	-	-
1 TO 19 EMPLOYEES	6	1	-	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	1	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAND COUNTY	6	1	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	2	-	-	-
1 TO 19 EMPLOYEES	6	1	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	2	-	-	-
HANSON COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
HARDING COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
HUGHES COUNTY	9	1	-	-	-	-	-	-	5	-	-	-	-	1	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	-	-	-	3	-	-	-	-	1	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
HUTCHINSON COUNTY	13	5	-	-	-	-	-	-	5	-	-	-	-	-	-	-	3	-	-	-	-	-
1 TO 19 EMPLOYEES	12	4	-	-	-	-	-	-	5	-	-	-	-	-	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HYDE COUNTY	3	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

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State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
JACKSON COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
JERAULO COUNTY	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
KINGSBURY COUNTY	11	2	-	-	-	1	-	-	5	-	-	-	-	1	-	1	-	-	-	-	-	1
1 TO 19 EMPLOYEES	9	1	-	-	-	-	-	-	5	-	-	-	-	1	-	1	-	-	-	-	-	1
20 TO 99 EMPLOYEES	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAKE COUNTY	11	2	-	-	-	2	-	-	1	1	-	-	-	1	-	2	2	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	2	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
LAWRENCE COUNTY	27	1	-	-	-	16	-	-	4	-	-	-	-	2	-	-	1	-	-	-	3	-
1 TO 19 EMPLOYEES	22	1	-	-	-	13	-	-	3	-	-	-	-	2	-	-	1	-	-	-	2	-
20 TO 99 EMPLOYEES	4	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LINCOLN COUNTY	16	1	-	-	1	2	-	-	2	-	-	-	-	2	-	1	7	-	-	-	-	-
1 TO 19 EMPLOYEES	10	-	-	-	-	2	-	-	2	-	-	-	-	1	-	1	4	-	-	-	-	-
20 TO 99 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
LYMAN COUNTY	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
MC COOK COUNTY	11	1	-	-	2	-	-	-	3	-	-	-	-	3	-	-	1	-	-	-	-	1
1 TO 19 EMPLOYEES	10	1	-	-	2	-	-	-	3	-	-	-	-	3	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
MC PHERSON COUNTY	7	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	2	-
1 TO 19 EMPLOYEES	7	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	2	-
MARSHALL COUNTY	8	1	-	-	3	-	-	-	2	-	-	-	-	1	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	1	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
MEADE COUNTY	13	1	-	-	-	5	-	-	3	-	-	-	-	3	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	-	3	-	-	1	-	-	-	-	3	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MELLETTE COUNTY	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
MINER COUNTY	3	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MINNEHAHA COUNTY	116	20	-	-	5	10	3	4	23	6	-	4	-	8	-	10	8	-	3	3	7	2
1 TO 19 EMPLOYEES	70	6	-	-	4	7	3	3	16	5	-	1	-	5	-	5	5	-	2	2	6	-
20 TO 99 EMPLOYEES	32	10	-	-	-	2	-	1	5	1	-	3	-	2	-	2	2	-	1	-	1	2
100 TO 249 EMPLOYEES	10	1	-	-	-	1	-	-	2	-	-	-	-	1	-	3	1	-	-	1	-	-
250 EMPLOYEES AND OVER	4	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOODY COUNTY	6	-	-	-	-	-	-	1	2	-	-	-	-	2	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	-	-	1	2	-	-	-	-	2	-	-	-	-	1	-	-	-
PENNINGTON COUNTY	76	11	-	-	2	14	-	-	18	1	-	4	1	7	-	3	5	2	2	-	5	1
1 TO 19 EMPLOYEES	57	5	-	-	2	11	-	-	17	1	-	4	1	3	-	2	4	1	2	-	4	-
20 TO 99 EMPLOYEES	12	4	-	-	-	2	-	-	-	-	-	-	-	3	-	1	-	1	-	-	-	1
100 TO 249 EMPLOYEES	6	2	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
PERKINS COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
POTTER COUNTY	5	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	5	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-

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State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
ROBERTS COUNTY	8	-	-	-	2	1	-	-	2	-	-	-	-	1	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	7	-	-	-	1	1	-	-	2	-	-	-	-	1	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SANBORN COUNTY	2	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
SHANNON COUNTY	4	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
SPINK COUNTY	4	1	-	-	-	-	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
STANLEY COUNTY	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
SULLY COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
TODD COUNTY	6	1	-	1	1	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	1	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIPP COUNTY	5	2	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	2	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-
TURNER COUNTY	9	2	-	-	-	-	-	-	4	-	-	-	-	1	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	9	2	-	-	-	-	-	-	4	-	-	-	-	1	-	1	1	-	-	-	-	-
UNION COUNTY	19	1	-	-	1	1	1	-	2	-	-	2	-	-	-	1	7	1	2	-	-	-
1 TO 19 EMPLOYEES	13	-	-	-	-	1	1	-	2	-	-	2	-	-	-	1	5	-	1	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WALWORTH COUNTY	6	1	-	-	-	-	-	-	3	-	-	-	-	1	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	3	-	-	-	-	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
YANKTON COUNTY	21	5	-	-	-	1	-	-	4	-	-	-	-	3	-	1	4	2	1	-	-	-
1 TO 19 EMPLOYEES	12	3	-	-	-	1	-	-	3	-	-	-	-	3	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

Tennessee

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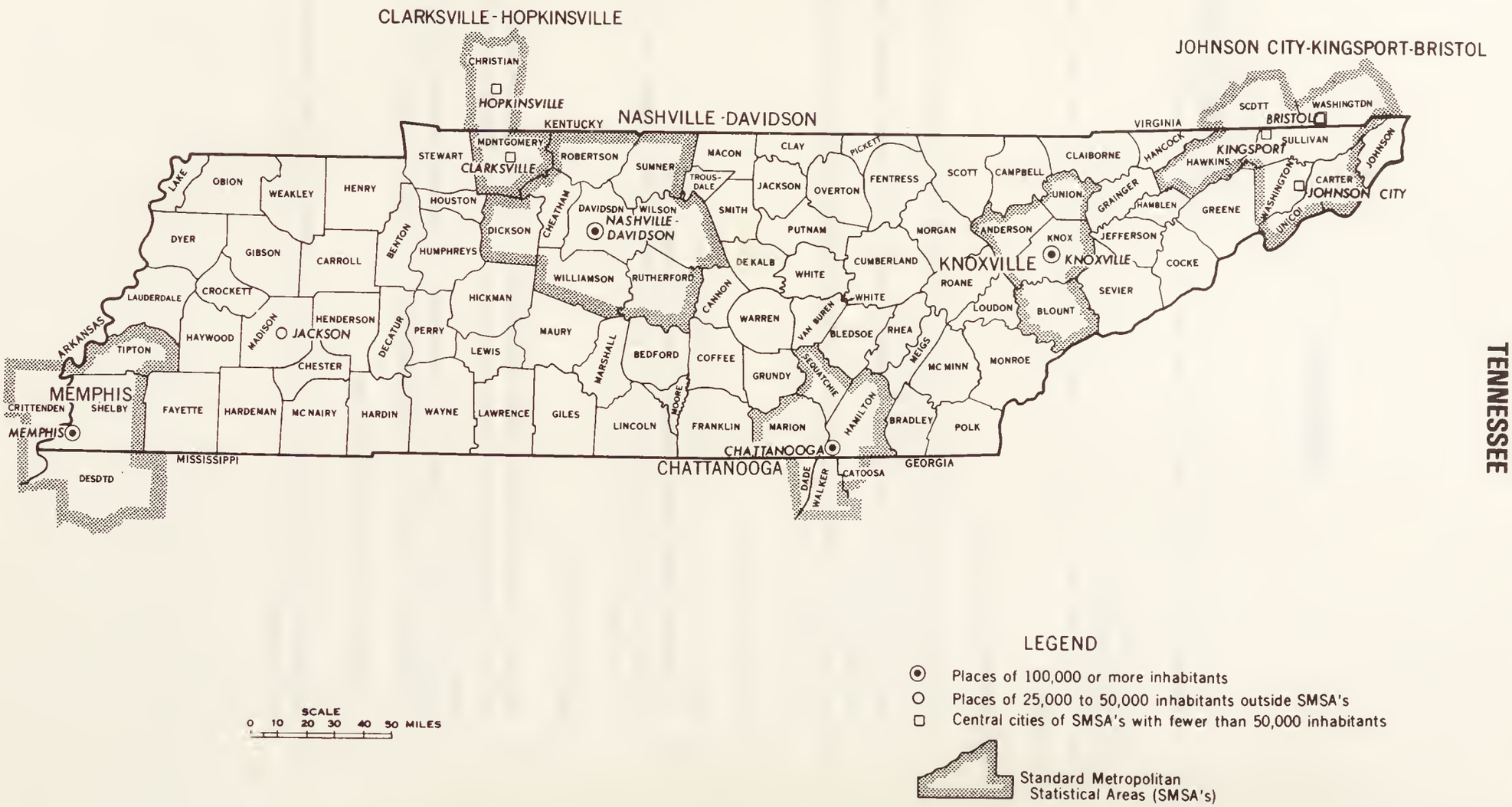
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TENNESSEE

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 489.8 thousand persons were employed in Tennessee's manufacturing establishments. This figure represented an increase of 4 percent from the 1972 figure of 467.4 thousand workers.

The total value added by manufacture for the State amounted to $12,663 million in 1977, an increase of approximately 65 percent from the 1972 figure of $7,662 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were apparel and other textile products, chemicals and allied products, electric and electronic equipment, and food and kindred products. They accounted for approximately 40 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 42 percent of the State's employment.

The most important counties in the State ranked by employment were Shelby, Davidson, Hamilton, and Knox. They accounted for approximately 36 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 37 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Tennessee:						
1977	489.8	5,218.7	481.0	5,098.9	8.8	119.8
1972	467.4	3,351.7	459.8	3,276.9	7.6	74.8
1967	418.0	2,190.0	412.8	2,145.8	5.2	44.2
1963	334.9	1,505.2	330.8	1,479.2	4.1	26.0
STANDARD METROPOLITAN STATISTICAL AREAS						
Chattanooga, Tenn.-Ga.:						
1977	53.9	612.9	53.1	600.7	.8	12.2
1972	56.8	450.3	56.1	443.7	.7	6.6
1967	51.6	308.3	50.7	302.6	.9	5.7
1963	38.9	193.8	38.6	191.6	.3	2.3
Clarksville-Hopkinsville, Tenn.-Ky.:						
1977	9.4	89.3	8.9	81.8	.5	7.5
1972	10.0	64.1	(NA)	(NA)	(NA)	(NA)
Johnson City-Kingsport-Bristol, Tenn.-Va.:						
1977	54.5	655.6	54.0	649.5	.5	6.1
1972	49.3	400.3	49.3	400.3	-	-
Knoxville:						
1977	39.6	475.8	39.4	473.7	.2	2.1
1972	40.9	324.6	40.8	323.2	.1	1.4
1967	38.9	222.2	38.9	221.9	(Z)	.3
1963	34.9	175.9	34.6	175.1	.2	.7
Memphis, Tenn.-Ark.-Miss.:						
1977	64.1	780.1	62.1	749.0	2.0	31.1
1972	64.2	525.9	62.6	509.5	1.5	16.4
1967	57.4	332.8	56.1	321.4	1.3	11.4
1963	47.2	241.4	46.2	233.9	1.0	7.5
Nashville-Davidson:						
1977	80.5	914.7	76.4	864.3	4.1	50.4
1972	72.0	549.4	69.1	522.3	2.9	27.1

- Represents zero. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
TENNESSEE															
1977 CENSUS.	6 487	2 477	489.8	5 218.7	375.7	720.3	3 481.2	12 663.4	16 318.9	28 752.0	961.1	2.50	100	100	19 596.9
1976 ASM....	(NA)	(NA)	478.7	4 686.3	359.8	694.4	3 039.9	10 723.6	14 336.2	24 755.5	781.3	2.55	98	96	18 753.0
1975 ASM....	(NA)	(NA)	452.1	4 126.6	338.0	646.0	2 653.9	9 289.2	12 432.6	21 768.2	826.1	2.47	92	94	18 302.2
1974 ASM....	(NA)	(NA)	489.5	4 071.8	381.7	739.0	2 759.5	9 563.8	12 476.0	21 608.1	935.4	2.47	100	102	19 844.8
1973 ASM....	(NA)	(NA)	493.3	3 756.3	389.3	761.1	2 581.6	8 772.5	10 335.4	18 918.7	673.5	2.48	101	102	19 897.9
1972 CENSUS.	5 647	2 291	467.4	3 351.7	367.0	725.3	2 295.1	7 662.0	8 635.7	16 129.3	540.0	2.46	95	98	19 028.7
1971 ASM....	(NA)	(NA)	444.2	2 955.3	346.9	679.8	2 006.5	6 728.9	7 409.8	14 078.7	529.7	2.42	91	94	18 363.1
1970 ASM....	(NA)	(NA)	447.9	2 785.5	348.2	682.4	1 886.2	6 297.0	6 858.5	12 982.6	507.7	2.33	91	99	19 217.2
1969 ASM....	(NA)	(NA)	456.3	2 693.4	360.5	706.9	1 857.6	5 982.1	6 740.4	12 599.4	523.8	2.28	93	103	20 035.5
1968 ASM....	(NA)	(NA)	434.1	2 445.4	345.1	682.4	1 696.4	5 542.0	6 328.9	11 771.7	481.3	2.22	89	100	19 527.6
1967 CENSUS.	5 040	2 022	418.0	2 190.0	333.6	654.7	1 512.2	4 921.1	5 848.0	10 700.1	412.4	2.16	85	99	19 323.2
1966 ASM....	(NA)	(NA)	401.1	2 038.6	320.8	643.5	1 408.9	4 627.8	5 519.2	9 975.9	510.7	2.11	82	98	19 024.5
1965 ASM....	(NA)	(NA)	373.4	1 809.2	299.2	599.1	1 257.5	4 139.4	4 841.5	8 878.0	389.7	2.07	76	92	18 010.2
1964 ASM....	(NA)	(NA)	344.9	1 621.9	273.9	550.2	1 122.3	5 577.2	4 322.9	7 871.9	300.2	2.00	70	89	17 268.5
1963 CENSUS.	4 787	1 809	334.3	1 505.2	267.0	530.2	1 040.7	3 577.2	(NA)	(NA)	244.9	1.97	68	87	16 958.4
CHATTANOOGA, TENN.-GA., SMSA															
1977 CENSUS.	671	287	53.9	612.9	41.3	80.3	409.9	1 290.0	2 032.3	3 305.2	89.0	.28	100	100	19 596.9
1976 ASM....	(NA)	(NA)	54.4	575.7	41.9	79.3	394.2	1 193.9	1 892.1	3 072.6	74.0	.29	101	96	18 753.0
1975 ASM....	(NA)	(NA)	51.4	512.6	39.5	74.4	349.2	1 119.9	1 678.0	2 804.1	77.0	.28	95	94	18 302.2
1974 ASM....	(NA)	(NA)	57.5	517.2	44.6	84.0	354.2	1 117.5	1 581.1	2 623.3	86.0	.29	107	102	19 844.8
1973 ASM....	(NA)	(NA)	57.3	481.4	45.3	91.9	337.0	989.2	1 365.5	2 339.8	69.7	.29	106	102	19 897.9
1972 CENSUS.	635	280	56.8	450.3	45.0	91.6	318.2	927.7	1 205.2	2 119.1	64.4	.30	105	98	19 028.7
1971 ASM....	(NA)	(NA)	52.5	386.2	41.3	83.1	268.4	753.8	1 045.4	1 793.4	51.0	.29	97	94	18 363.1
1970 ASM....	(NA)	(NA)	53.4	357.2	41.8	83.0	244.6	676.7	979.9	1 648.5	71.9	.28	99	99	19 217.2
1969 ASM....	(NA)	(NA)	54.7	353.6	43.0	85.8	243.1	741.6	975.4	1 690.5	51.7	.27	102	103	20 035.5
1968 ASM....	(NA)	(NA)	52.6	326.1	40.8	81.5	222.4	699.9	920.4	1 587.0	67.5	.27	98	100	19 527.6
1967 CENSUS.	515	238	51.6	308.3	40.1	81.0	213.0	610.6	874.6	1 482.7	74.4	.27	96	99	19 323.2
1966 ASM....	(NA)	(NA)	54.7	303.3	41.0	83.8	206.4	597.7	850.9	1 438.3	67.2	.29	102	98	19 024.5
1965 ASM....	(NA)	(NA)	47.9	265.9	37.9	78.0	183.7	536.7	745.6	1 267.6	70.2	.27	89	92	18 010.2
1964 ASM....	(NA)	(NA)	40.3	212.9	31.7	65.6	146.6	450.1	628.1	1 068.8	54.7	.23	75	89	17 268.5
1963 CENSUS.	455	207	38.9	193.8	30.8	62.1	136.6	391.9	(NA)	(NA)	22.4	.23	72	87	16 958.4
JOHNSON CITY-KINGSPORT-BRISTOL, TENN.-VA., SMSA															
1977 CENSUS.	429	182	54.5	655.6	40.0	77.4	407.6	1 505.0	1 880.0	3 362.5	102.0	.28	100	100	19 596.9
1972 CENSUS.	369	159	49.3	400.3	31.7	76.1	264.1	832.0	868.6	1 702.3	78.8	.26	91	98	19 028.7
MEMPHIS, TENN.-ARK.-MISS., SMSA															
1977 CENSUS.	1 156	458	64.1	780.1	45.4	90.3	484.9	2 159.7	3 442.9	5 608.3	161.0	.33	100	100	19 596.9
1976 ASM....	(NA)	(NA)	61.3	692.0	42.4	81.9	414.1	1 778.1	3 113.9	4 881.9	139.4	.33	96	96	18 753.0
1975 ASM....	(NA)	(NA)	62.5	645.4	42.8	83.8	402.7	1 622.2	2 940.0	4 561.2	155.3	.34	97	94	18 302.2
1974 ASM....	(NA)	(NA)	66.7	637.7	48.1	94.9	406.9	1 655.3	2 964.2	4 510.2	138.5	.34	104	102	19 844.8
1973 ASM....	(NA)	(NA)	68.2	587.3	49.5	98.0	378.4	1 548.1	2 363.0	3 891.3	119.8	.34	106	102	19 897.9
1972 CENSUS.	1 046	461	64.2	525.9	46.8	94.9	341.9	1 352.4	1 857.6	3 170.6	84.4	.33	100	98	19 028.7
1971 ASM....	(NA)	(NA)	58.6	440.7	41.7	84.3	278.5	1 082.2	1 570.7	2 651.0	90.6	.32	91	94	18 363.1
1970 ASM....	(NA)	(NA)	62.6	430.0	44.8	88.7	264.1	1 023.8	1 473.2	2 488.6	71.9	.33	98	99	19 217.2
1969 ASM....	(NA)	(NA)	63.5	409.9	47.6	94.0	267.8	1 014.6	1 397.7	2 398.0	55.4	.32	99	103	20 035.5
1968 ASM....	(NA)	(NA)	59.7	372.4	44.7	89.0	243.1	906.4	1 344.7	2 248.2	71.4	.31	93	100	19 527.6
1967 CENSUS.	862	387	57.4	332.8	42.1	83.3	211.2	796.3	1 291.2	2 078.6	52.2	.30	90	99	19 323.2
1966 ASM....	(NA)	(NA)	50.8	296.7	37.6	77.6	191.0	765.8	1 179.6	1 917.7	69.1	.27	79	98	19 024.5
1965 ASM....	(NA)	(NA)	48.7	270.1	36.0	75.3	175.7	673.4	1 064.2	1 723.4	41.4	.27	76	92	18 010.2
1964 ASM....	(NA)	(NA)	47.9	256.0	35.0	73.0	166.8	608.5	985.3	1 600.7	37.9	.28	75	89	17 268.5
1963 CENSUS.	816	353	47.1	241.4	34.0	70.2	153.9	575.3	(NA)	(NA)	28.3	.28	73	87	16 958.4
NASHVILLE-DAVIDSON SMSA															
1977 CENSUS.	1 354	460	80.5	914.7	55.7	107.5	554.5	1 935.3	2 436.0	4 342.9	156.5	.41	100	100	19 596.9
1976 ASM....	(NA)	(NA)	78.5	786.7	53.7	106.6	481.4	1 538.0	2 111.1	3 607.0	108.7	.42	98	96	18 753.0
1975 ASM....	(NA)	(NA)	70.3	671.7	50.1	95.6	407.7	1 287.8	1 746.9	3 086.8	127.9	.38	87	94	18 302.2
1974 ASM....	(NA)	(NA)	77.6	694.9	58.3	114.3	441.8	1 389.0	1 822.0	3 167.4	222.0	.39	96	102	19 844.8
1973 ASM....	(NA)	(NA)	77.4	618.4	57.2	111.5	388.8	1 295.8	1 577.9	2 868.4	105.3	.39	96	102	19 897.9
1972 CENSUS.	1 124	421	72.0	549.4	52.7	103.3	342.7	1 149.7	1 341.9	2 470.4	96.8	.38	89	98	19 028.7

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (for appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
TENNESSEE									
1977 CENSUS	10 654	77	1 917	4.83	57	75	25 852	41	17.58
1976 ASM	9 790	75	1 930	4.38	58	77	22 402	44	15.44
1975 ASM	9 128	75	1 911	4.11	57	76	20 547	44	14.38
1974 ASM	8 318	78	1 936	3.73	58	77	19 538	43	12.94
1973 ASM	7 615	79	1 955	3.39	55	74	17 783	43	11.53
1972 CENSUS	7 171	79	1 976	3.16	54	74	16 393	44	10.56
1971 ASM	6 653	78	1 960	2.95	53	74	15 148	44	9.90
1970 ASM	6 219	78	1 960	2.76	53	74	14 059	44	9.23
1969 ASM	5 903	79	1 961	2.63	53	75	13 110	45	8.46
1968 ASM	5 633	79	1 977	2.49	54	75	12 767	44	8.12
1967 CENSUS	5 239	80	1 963	2.31	55	75	11 773	45	7.52
1966 ASM	5 083	80	2 006	2.19	55	76	11 538	44	7.19
1965 ASM	4 845	80	2 002	2.10	55	75	11 086	44	6.91
1964 ASM	4 703	79	2 009	2.04	55	76	10 372	45	6.50
1963 CENSUS	4 503	80	1 986	1.96	(NA)	(NA)	9 869	46	6.22
CHATTANOOGA, TENN.-GA., SMSA									
1977 CENSUS	11 381	77	1 947	5.10	61	80	23 954	48	16.06
1976 ASM	10 583	77	1 893	4.97	62	80	21 947	48	15.06
1975 ASM	9 973	77	1 884	4.69	60	78	21 788	46	15.05
1974 ASM	8 995	78	1 883	4.22	60	80	19 435	46	13.30
1973 ASM	8 401	79	2 029	3.67	58	79	17 264	49	10.76
1972 CENSUS	7 928	79	2 036	3.47	57	78	16 333	49	10.13
1971 ASM	7 356	79	2 012	3.23	58	80	14 358	51	9.07
1970 ASM	6 689	78	1 986	2.95	59	81	12 672	53	8.15
1969 ASM	6 464	79	1 995	2.83	58	79	13 558	48	8.64
1968 ASM	6 200	78	1 998	2.73	58	79	13 306	47	8.59
1967 CENSUS	5 975	78	2 020	2.63	59	80	11 833	50	7.54
1966 ASM	5 545	75	2 044	2.46	59	80	10 927	51	7.13
1965 ASM	5 551	79	2 058	2.36	59	80	11 205	50	6.88
1964 ASM	5 283	79	2 069	2.23	59	79	11 169	47	6.86
1963 CENSUS	4 982	79	2 016	2.20	(NA)	(NA)	10 075	49	6.31
JOHNSON CITY-KINGSPORT-BRISTOL, TENN.-VA., SMSA									
1977 CENSUS	12 035	73	1 935	5.27	56	75	27 628	44	19.44
1972 CENSUS	8 120	64	2 400	3.47	51	75	16 876	48	10.93
MEMPHIS, TENN.-ARK.-MISS., SMSA									
1977 CENSUS	12 166	71	1 989	5.37	61	75	33 681	36	23.90
1976 ASM	11 289	69	1 932	5.06	64	78	29 007	39	21.71
1975 ASM	10 326	68	1 958	4.81	64	79	25 955	40	19.36
1974 ASM	9 561	72	1 973	4.29	66	80	24 817	39	17.44
1973 ASM	8 611	73	1 980	3.86	61	76	22 699	38	15.80
1972 CENSUS	8 191	73	2 027	3.60	59	75	21 065	39	14.25
1971 ASM	7 520	71	2 022	3.30	59	76	18 468	41	12.84
1970 ASM	6 869	72	1 980	2.98	59	76	16 355	42	11.54
1969 ASM	6 455	75	1 975	2.85	58	75	15 978	40	10.79
1968 ASM	6 238	75	1 991	2.73	60	76	15 183	41	10.18
1967 CENSUS	5 798	73	1 979	2.54	62	78	13 873	42	9.56
1966 ASM	5 841	74	2 064	2.46	62	77	15 075	39	9.87
1965 ASM	5 546	74	2 092	2.33	62	77	13 828	40	8.94
1964 ASM	5 344	73	2 086	2.28	62	78	12 704	42	8.34
1963 CENSUS	5 125	72	2 065	2.19	(NA)	(NA)	12 214	42	8.20
NASHVILLE-DAVIDSON SMSA									
1977 CENSUS	11 369	69	1 931	5.16	56	77	24 053	47	18.00
1976 ASM	10 022	68	1 985	4.52	59	80	19 592	51	14.43
1975 ASM	9 555	71	1 908	4.26	57	78	18 319	52	13.47
1974 ASM	8 955	75	1 961	3.87	58	79	17 899	50	12.15
1973 ASM	7 990	74	1 949	3.49	55	77	16 742	48	11.62
1972 CENSUS	7 631	73	1 960	3.32	54	77	15 968	48	11.13

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	6 487	5 647
With 1 to 19 employees	do	4 010	3 356
With 20 to 99 employees	do	1 406	1 273
With 100 employees or more	do	1 071	1 018
All employees, average for year[1]	1,000	489.8	467.4
Payroll for year, all employees[1]	mil. dollars	5 218.7	3 351.7
Production workers:			
Average for year	1,000	375.7	367.0
March	do	366.3	354.7
May	do	374.0	362.6
August	do	379.0	372.7
November	do	383.0	378.0
Hours	millions	720.3	725.3
January to March	do	172.4	175.7
April to June	do	182.5	180.9
July to September	do	179.9	180.9
October to December	do	185.4	187.7
Wages	mil. dollars	3 481.2	2 295.1
Cost of materials, etc.[2]	do	16 318.9	8 635.7
Materials, parts, containers, etc., consumed	do	14 014.8	7 546.7
Resales	do	1 153.5	630.6
Fuels consumed	do	355.4	121.3
Purchased electric energy	do	554.4	184.5
Contract work	do	240.9	152.6
Value of shipments, including resales[2]	do	28 752.0	16 129.3
Value of resales	do	1 430.7	723.9
Value added by manufacture	do	12 663.4	7 662.0
Manufacturers' inventories:			
Beginning of year	do	3 874.3	2 163.7
Finished products	do	1 381.6	784.7
Work in process	do	1 143.5	668.7
Materials, supplies, fuel, etc.	do	1 349.2	710.3
End of year	do	4 197.5	2 361.7
Finished products	do	1 491.0	887.9
Work in process	do	1 292.2	703.1
Materials, supplies, fuel, etc.	do	1 414.3	770.7
Capital expenditures for plant and equipment	do	1 026.4	558.2
New capital expenditures	do	961.1	540.0
New buildings and other structures	do	160.7	101.2
New machinery and equipment	do	800.5	438.9
Used capital expenditures	do	65.3	18.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	9,380.4	1
New capital expenditures	1,032.0	2
Used capital expenditures	65.5	4
Retirements	337.9	2
End of year	10,140.0	1
Buildings and other structures:		
Beginning of year	2,287.0	1
New capital expenditures	179.3	5
Used capital expenditures	13.4	9
Retirements	58.4	6
End of year	2,421.3	1
Machinery and equipment:		
Beginning of year	7,093.3	1
New capital expenditures	852.7	2
Automobiles, trucks, etc., for highway use	26.5	(NA)
Computers and peripheral data processing equip.	25.7	(NA)
All other	642.6	(NA)
New machinery and equipment, n.s.k.	157.9	(NA)
Used capital expenditures	52.1	5
Retirements	279.5	2
End of year	7,718.6	1

Item	Amount (million dollars)	Standard error of estimate (percent)
Rental payments:		
Total	137.8	3
Buildings and other structures	50.7	6
Machinery and equipment	87.1	3
Depreciation charges during 1977:		
Total	669.3	1
Buildings and other structures	111.9	2
Machinery and equipment	557.4	1
Supplemental labor costs:		
Total	946.6	1
Legal costs	378.9	1
Voluntary costs	567.6	1
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	90.2	5
Response coverage ratio (percent)	60	(X)
Machinery	309.3	6
Response coverage ratio (percent)	58	(X)
Cost of purchased communication services	(136.7)	29
Response coverage ratio (percent)	62	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in parentheses have standard errors of 100 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufecturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explenetion of terms, see eppendix B]

Geographic eree	1977											1972	
		All esteblishments[2]		All employees[2]		Production workers							
	E[1]	Totel (no.)	With 20 employ-ees or more (no.)	Number (1,000)	Peyroll (million dollers)	Number (1,000)	Hours (mil-lions)	Weges (million dollers)	Velue edded by menu-fecture (million dollers)	Cost of meteri-els[3] (million dollers)	Value of ship-ments[3] (million dollers)	New capitel expend-itures (million dollers)	All employ-ees[2] (1,000)	Velue edded by menu-facture (million dollars)
Tennessee	-	**6 487**	**2 477**	**489.8**	**5 218.7**	**375.7**	**720.3**	**3 481.2**	**12 883.4**	**18 318.9**	**28 752.0**	**961.1**	**487.4**	**7 662.0**
STANDARD METROPOLITAN STATISTICAL AREAS														
Chettenooga, Tenn.-Ge.	E7	671	287	53.9	612.9	41.3	80.3	409.9	1 290.0	2 032.3	3 305.2	89.0	56.8	927.7
Portion in Georgie	E9	118	53	9.9	89.7	8.2	16.6	66.0	199.8	396.3	594.2	11.3	10.5	144.6
Portion in Tennessee	-	553	234	43.9	523.2	33.0	63.7	344.0	1 090.2	1 636.0	2 711.0	77.7	46.3	783.1
Clerksville-Hopkinsville, Tenn.-Ky.	E1	117	44	9.4	89.3	7.1	13.7	58.3	233.3	279.8	513.8	12.9	10.0	134.7
Portion in Kentucky	E1	57	21	3.7	34.6	3.1	6.1	25.0	89.3	124.6	211.5	(D)	3.8	56.8
Portion in Tennessee	E1	60	23	5.6	54.7	4.0	7.5	33.3	144.0	155.2	302.3	8.1	6.2	77.9
Johnson City-Kingsport-Bristol, Tenn.-Va.	E1	429	182	54.5	655.6	40.0	77.4	407.6	1 505.0	1 880.0	3 362.5	102.0	49.3	832.0
Portion in Virginia	E1	119	55	8.7	94.6	6.6	12.8	63.2	217.4	348.7	563.1	19.8	6.4	91.2
Portion in Tennessee	E1	310	127	45.8	560.9	33.4	64.7	344.4	1 287.6	1 531.2	2 799.4	82.3	42.9	740.8
Knoxville	-	546	192	39.6	475.8	29.9	57.8	319.8	1 174.8	1 487.8	2 609.6	88.1	40.9	722.3
Memphis, Tenn.-Ark.-Miss.	-	1 156	458	64.1	780.1	45.4	90.3	484.9	2 159.7	3 442.9	5 608.3	161.0	64.2	1 352.4
Portion in Tennessee	-	1 041	411	59.2	727.1	41.7	83.1	451.2	2 054.8	3 254.4	5 317.5	148.1	59.6	1 277.1
Portion in Mississippi	E1	62	25	3.4	36.7	2.5	4.9	22.5	66.4	112.7	176.2	8.5	2.4	37.3
Portion in Arkanses	-	53	22	1.6	16.3	1.2	2.4	11.2	38.6	75.8	114.5	4.4	2.1	38.0
Neshville-Davidson	-	1 354	460	80.5	914.7	55.7	107.5	554.5	1 935.3	2 436.0	4 342.9	156.5	72.0	1 149.7
COUNTIES														
Anderson	-	84	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bedford	-	56	31	4.7	41.8	4.0	7.7	32.4	124.2	157.6	276.7	3.9	4.2	74.1
Benton	-	20	5	0.9	8.2	0.8	1.5	6.1	18.4	18.4	36.9	(D)	0.8	8.1
Bledsoe	E2	22	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	2.5
Blount	-	57	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bredley	-	132	52	11.7	107.1	9.4	17.3	73.1	277.4	321.0	591.0	22.9	12.1	174.9
Cempbell	-	38	15	2.1	14.9	1.8	3.3	11.3	29.9	36.0	65.5	1.6	2.4	19.6
Cennon	-	16	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Carroll	E1	36	12	3.0	19.6	2.6	4.6	16.7	46.4	50.6	95.1	1.7	2.6	27.4
Certer	-	35	16	3.5	31.8	2.9	5.5	24.2	58.7	55.2	112.4	3.7	4.0	40.2
Cheetham	-	25	7	2.0	21.0	1.6	3.4	15.2	59.3	73.1	130.1	2.2	1.9	35.1
Chester	-	10	5	1.0	7.1	0.9	1.6	6.1	17.5	19.7	35.4	1.5	0.9	8.8
Claiborne	-	28	10	2.0	12.7	1.8	3.3	11.1	25.8	57.9	85.8	1.1	1.4	12.9
Cley	-	9	5	0.5	3.0	0.5	0.9	2.6	9.5	6.6	16.1	0.1	(D)	(D)
Cocke	-	33	18	3.3	32.8	2.8	5.5	25.8	88.4	137.9	223.7	4.1	3.4	49.4
Coffee	-	71	31	4.5	38.5	3.7	7.1	28.2	84.6	77.6	164.0	6.1	4.3	48.1
Crockett	-	15	6	1.8	13.4	1.5	2.6	9.9	42.0	49.1	92.4	(D)	(D)	(D)
Cumberlend	-	55	14	2.0	17.5	1.7	2.9	12.7	35.9	34.5	70.8	3.6	2.2	33.7
Devidson	-	865	293	50.1	617.3	32.3	62.5	355.9	1 237.6	1 662.5	2 886.6	99.7	45.9	792.4
Decatur	-	26	10	2.1	13.0	1.8	3.3	10.6	19.9	10.3	30.0	0.8	2.0	12.8
De Kelb	-	19	9	1.8	10.9	1.7	3.1	9.5	21.6	13.6	34.3	0.8	1.8	13.6
Dickson	E3	50	15	3.0	24.6	2.5	4.5	18.8	62.6	40.6	103.6	2.6	2.6	33.2
Dyer	-	46	13	4.6	48.6	3.9	8.0	36.5	109.4	123.8	231.9	9.8	4.2	71.9
Fayette	-	18	7	1.6	12.1	1.3	2.6	9.6	17.7	32.2	51.5	5.7	1.5	15.6
Fentress	-	34	6	1.2	6.9	1.1	2.0	6.1	17.9	27.4	43.1	0.4	1.4	7.9
Franklin	-	36	11	2.1	16.9	1.9	3.5	14.2	28.3	59.8	90.0	1.2	1.3	22.1
Gibson	-	60	32	8.0	76.9	6.2	11.7	52.8	152.6	157.1	303.4	11.0	9.5	111.6
Giles	-	35	19	3.7	30.5	3.3	6.2	24.8	110.6	83.9	196.7	5.3	3.7	65.3
Grainger	-	23	7	0.7	5.6	0.6	1.1	4.0	13.4	18.4	31.2	0.5	0.6	7.5
Greene	-	74	35	7.5	72.7	5.6	10.7	45.6	198.9	338.9	522.2	8.2	8.1	234.4
Grundy	E1	20	5	0.5	2.4	0.5	0.7	2.0	3.5	2.7	6.3	0.2	0.6	3.2
Hamblen	-	108	45	13.0	127.8	10.3	19.5	87.8	272.4	333.7	595.2	21.5	13.1	182.1
Hamilton	-	506	215	41.3	502.9	30.8	59.7	328.4	1 045.5	1 601.8	2 633.2	74.9	44.6	768.0
Hancock	E1	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Herdeman	-	46	11	1.4	12.4	1.2	2.3	9.5	26.5	42.8	71.3	1.9	2.5	33.8
Herdin	-	48	14	3.2	26.5	2.7	4.9	19.2	76.0	96.9	169.3	(D)	2.2	32.0
Hewkins	-	20	8	3.8	50.0	3.0	6.0	36.6	104.9	105.0	213.3	8.1	4.3	64.9
Haywood	-	24	10	1.2	9.9	1.0	1.9	7.1	20.4	25.4	46.6	1.0	1.5	23.3
Henderson	-	35	16	3.0	24.3	2.7	5.1	21.3	66.1	52.0	115.4	3.2	2.5	33.2
Henry	-	41	17	4.2	40.1	3.5	6.8	31.3	109.1	125.0	231.7	6.5	3.6	49.4
Hickman	-	20	10	1.3	9.8	1.2	2.4	8.3	33.8	25.7	58.6	2.2	1.3	16.2
Houston	E1	20	2	0.4	3.5	0.3	0.7	2.9	6.2	4.0	10.2	0.5	0.4	3.8
Humphreys	-	18	10	2.7	40.4	2.1	4.0	28.1	157.3	204.5	365.7	14.9	2.0	71.6
Jackson	E2	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	2.6
Jefferson	-	41	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.9	42.6
Johnson	-	18	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	10.3
Knox	-	396	147	25.4	254.7	19.7	37.4	172.4	553.1	760.5	1 306.4	42.1	26.3	355.9
Lake	-	10	6	0.6	3.6	0.5	0.9	2.7	12.2	27.1	38.7	0.3	0.6	5.8
Lauderdale	-	35	17	3.8	29.6	3.4	7.0	26.3	91.7	66.1	156.9	3.4	2.3	63.9
Lewrence	-	53	17	5.3	49.4	4.8	8.8	41.6	120.0	171.5	274.4	8.5	4.7	76.8
Lewis	-	24	6	1.2	12.4	1.1	2.0	10.6	21.5	19.7	40.9	1.3	1.3	18.1
Lincoln	-	35	12	3.3	23.0	2.9	5.3	18.9	61.9	102.0	162.8	(D)	2.8	35.3
Loudon	-	28	13	3.4	32.7	2.9	5.6	25.0	101.0	62.1	162.9	3.4	3.6	55.8
McMinn	-	87	43	8.5	85.8	6.5	12.7	56.5	201.1	243.4	444.9	54.9	7.7	123.8
McNairy	-	44	15	3.4	25.5	2.9	5.1	19.1	61.3	49.4	111.0	2.9	2.9	38.5
Macon	-	38	12	1.7	12.6	1.5	2.7	9.9	22.6	23.4	46.9	0.8	1.4	14.2
Madison	-	102	48	8.3	88.1	6.7	13.2	64.2	208.6	319.3	523.3	15.0	7.6	106.7
Marion	-	33	12	1.6	15.7	1.4	2.7	11.8	38.7	30.8	68.2	2.4	1.2	12.7
Marshall	-	43	22	4.3	36.4	3.6	6.7	26.7	101.5	144.7	246.9	6.5	3.7	51.5
Meury	-	66	39	6.2	69.8	5.0	9.4	51.0	220.8	351.1	561.9	59.9	4.6	82.7
Meigs	E1	13	4	0.4	2.6	0.3	0.5	2.1	4.4	9.1	13.5	0.4	0.3	2.6
Monroe	E1	62	19	2.3	17.5	2.0	3.8	13.9	36.3	30.5	66.8	2.2	1.5	13.4
Montgomery	E1	60	23	5.6	54.7	4.0	7.5	33.3	144.0	155.2	302.3	8.1	5.9	72.2
Moore	-	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Morgan	-	12	5	1.0	5.8	0.9	1.5	4.9	14.6	12.7	27.0	0.2	(D)	(D)
Obion	-	45	19	5.9	73.5	5.1	10.3	60.5	203.5	277.5	478.5	10.2	5.6	109.3

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
COUNTIES—Con.														
Overton	-	30	8	1.3	8.6	1.1	2.1	6.1	12.9	15.0	28.6	1.3	1.8	15.7
Perry	E1	24	8	1.0	6.7	0.9	1.6	6.0	12.3	8.4	20.6	1.9	0.9	5.8
Pickett	E1	9	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.4
Polk	-	15	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Putnam	-	115	42	5.9	49.8	4.7	8.4	33.8	107.1	105.1	210.0	5.5	4.4	76.4
Rhea	-	35	15	4.2	33.2	3.6	6.9	25.6	96.0	95.9	186.1	3.8	3.7	44.2
Roane	-	37	16	9.5	129.5	6.0	11.5	67.5	382.0	227.3	599.3	2.9	7.1	121.1
Robertson	-	45	20	3.1	27.4	2.2	4.0	17.1	67.6	88.8	158.9	3.9	2.4	33.7
Rutherford	-	114	44	8.4	92.0	6.0	11.6	57.0	209.4	269.5	475.5	13.1	6.2	94.9
Scott	E2	31	8	0.9	7.0	0.7	1.3	5.0	14.0	19.3	32.3	2.7	1.0	13.3
Sequatchie	E1	14	7	1.0	4.6	0.8	1.4	3.7	6.1	3.5	9.5	0.3	0.4	2.4
Sevier	-	51	11	1.9	16.4	1.6	3.5	13.3	38.5	26.8	65.1	0.9	1.7	20.1
Shelby	-	1 019	402	58.2	717.2	40.9	81.4	445.0	2 023.7	3 215.8	5 245.6	142.9	57.9	1 252.9
Smith	-	16	7	1.3	8.4	1.2	2.2	7.1	19.1	29.4	48.5	(D)	1.2	10.4
Stewart	E2	15	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	3.0
Sullivan	-	122	47	25.5	354.6	18.3	35.5	211.2	847.0	1 110.2	1 936.3	56.2	22.6	482.9
Sumner	-	129	36	5.0	48.1	4.0	7.6	33.6	116.7	147.3	256.8	22.2	4.7	51.0
Tipton	-	22	9	1.0	9.9	0.8	1.7	6.2	31.0	38.6	71.9	5.2	1.7	24.1
Trousdale	-	8	7	1.4	8.8	1.2	2.1	7.0	24.3	15.0	34.8	0.5	1.1	9.6
Unicoi	-	20	7	1.4	14.7	1.1	2.2	10.5	33.1	16.0	48.7	1.4	1.7	20.3
Union	E1	9	3	0.2	1.5	0.2	0.3	1.1	3.9	3.4	7.2	0.1	0.2	1.5
Van Buren	E1	10	4	0.6	3.6	0.6	1.0	2.9	3.7	4.3	8.1	(D)	(D)	(D)
Warren	-	62	21	6.5	57.0	5.5	10.6	44.4	151.8	152.7	302.3	7.0	5.3	75.6
Washington	-	113	49	11.7	109.8	8.2	15.4	61.9	244.0	244.8	488.7	12.8	10.3	132.5
Wayne	-	24	8	1.8	11.3	1.6	2.6	9.1	26.1	27.2	52.7	0.9	2.3	20.0
Weakley	-	42	16	3.5	23.9	3.0	5.5	18.2	45.2	41.8	86.2	1.8	3.1	31.2
White	-	34	18	3.4	25.4	2.9	5.2	19.2	48.8	54.5	102.3	2.1	2.7	23.6
Williamson	-	58	16	3.6	31.4	2.6	5.1	18.0	70.5	60.2	131.6	7.7	2.7	36.2
Wilson	-	68	29	5.4	53.1	4.5	8.8	38.8	111.8	94.1	199.7	5.2	5.7	73.3
CITIES														
Alcoa	-	6	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Athens	-	45	19	4.0	37.3	3.0	6.0	23.2	77.9	106.9	179.3	(D)	3.1	44.8
Bolivar	-	22	4	0.6	5.3	0.5	0.9	4.1	7.8	20.5	31.0	1.2	1.4	17.3
Bristol	-	46	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Brownsville	-	24	10	1.2	9.9	1.0	1.9	7.1	20.4	25.4	46.6	1.0	(D)	(D)
Camden	-	14	5	0.9	8.1	0.7	1.5	6.1	18.2	18.1	36.5	(D)	(D)	(D)
Centerville	-	16	7	1.2	9.0	1.1	2.2	7.6	31.7	24.3	55.0	1.9	1.1	15.5
Chattanooga	-	413	188	38.1	468.0	28.4	55.2	308.3	969.6	1 517.1	2 472.9	67.2	36.1	577.0
Clarksville	E1	57	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.8	71.3
Cleveland	-	113	46	9.9	89.3	8.0	14.8	61.5	185.6	273.5	454.2	(D)	11.4	153.7
Clinton	-	19	8	0.9	9.9	0.7	1.4	7.2	34.8	23.9	58.2	3.8	(NA)	(NA)
Collegedale	-	6	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	18.6
Collierville	-	23	15	1.8	18.0	1.4	2.8	12.5	79.7	124.5	204.5	(D)	(D)	(D)
Columbia	-	48	28	4.6	52.8	3.6	6.9	38.5	153.5	271.7	430.9	(D)	3.2	46.3
Cookeville	-	92	35	5.0	43.5	4.0	7.2	29.2	95.8	93.4	187.0	5.2	3.7	71.4
Covington	-	17	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Crossville	-	50	14	1.9	17.3	1.6	2.8	12.4	35.4	34.0	69.8	3.6	2.1	33.2
Dayton	-	20	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	16.5
Dickson	E2	23	8	2.4	19.7	2.0	3.7	15.3	51.2	30.6	82.4	2.0	2.1	28.3
Dyer	-	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dyersburg	-	36	8	3.8	42.9	3.2	6.8	32.1	99.7	114.3	213.7	(D)	3.7	66.9
Elizabethton	-	28	16	3.5	31.7	2.9	5.5	24.1	58.4	54.5	111.4	3.6	4.0	40.1
Erwin	-	14	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	19.1
Etowah	-	17	11	1.7	12.4	1.4	2.6	9.6	18.5	42.4	66.9	1.5	1.5	21.2
Fayetteville	-	32	12	3.3	22.9	2.9	5.3	18.9	61.8	101.8	162.5	(D)	2.6	32.5
Franklin	-	44	16	3.5	30.2	2.5	5.0	17.6	69.3	59.2	129.4	7.6	2.5	33.2
Gallatin	-	45	16	2.3	23.4	1.9	3.7	17.2	58.5	96.3	151.0	(D)	2.6	32.4
Goodlettsville	-	33	11	1.5	19.2	1.2	2.3	14.1	34.0	111.6	146.2	1.9	(NA)	(NA)
Greeneville	-	60	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Harriman	-	20	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	22.2
Henderson	-	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hendersonville	-	49	4	0.8	11.0	0.5	1.0	6.0	27.9	18.6	44.1	1.7	(NA)	(NA)
Hohenwald	-	24	6	1.2	12.4	1.1	2.0	10.6	21.5	19.7	40.9	1.3	1.3	18.1
Humboldt	-	20	12	1.9	19.0	1.6	3.1	14.4	35.2	68.5	101.3	4.3	2.0	21.4
Huntingdon	-	8	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jackson	-	91	41	5.1	57.1	4.0	8.0	39.6	129.4	246.0	369.3	10.1	(D)	(D)
Jefferson City	-	13	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Johnson City	-	87	41	10.7	102.2	7.4	14.1	57.0	232.2	225.4	458.0	11.8	7.5	85.8
Kingsport	-	57	23	18.5	271.7	12.9	25.4	164.4	436.3	907.2	1 346.0	(D)	6.2	88.5
Knoxville	-	323	109	18.5	183.4	14.2	27.1	122.3	404.4	582.1	982.1	24.9	23.6	313.8
Lafayette	-	19	7	1.3	9.9	1.1	2.1	7.8	18.3	20.9	40.1	(D)	1.0	11.9
La Follette	-	23	7	1.3	7.9	1.0	1.8	5.7	12.3	13.4	25.2	0.9	2.0	15.3
La Vergne	-	16	8	2.0	27.0	1.3	2.4	16.1	52.4	109.1	155.9	(D)	(D)	(D)
Lawrenceburg	-	30	11	4.6	44.8	4.2	7.7	37.7	109.8	156.8	250.1	(D)	(D)	(D)
Lebanon	-	51	25	5.0	50.5	4.2	8.3	37.0	108.0	92.1	194.0	5.0	5.2	68.5
Lenoir City	-	12	4	0.6	3.9	0.5	1.0	3.3	6.7	15.9	22.6	0.1	0.5	4.1
Lewisburg	-	38	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lexington	-	26	15	2.9	23.9	2.6	5.0	21.0	65.1	51.0	113.6	3.1	2.4	32.9
Livingston	E1	23	6	1.2	7.8	1.0	2.0	5.5	11.4	14.0	26.0	1.2	1.7	14.6
Loudon	-	12	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	34.4
McKenzie	-	14	6	1.4	7.7	1.2	2.0	6.2	17.2	18.3	35.2	0.3	1.4	16.5
McMinnville	-	51	18	6.1	54.6	5.2	10.0	42.3	145.5	148.4	291.9	(D)	(D)	(D)

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
CITIES—Con.														
Manchester	-	22	5	1.2	10.0	1.0	2.0	7.6	31.7	15.2	46.8	(D)	0.8	4.8
Martin	-	16	4	0.9	6.2	0.8	1.3	4.6	13.2	16.4	29.4	0.6	1.3	17.3
Maryville	E1	36	8	0.6	5.6	0.4	0.8	3.2	14.8	15.8	30.4	1.8	0.9	20.2
Memphis	-	917	358	51.7	634.8	36.2	72.2	391.0	1 725.4	2 719.2	4 452.4	106.5	54.1	1 161.6
Milan	-	18	10	3.9	41.3	2.9	5.6	27.6	81.9	61.6	140.5	5.9	5.6	65.9
Morristown	-	96	42	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mount Pleasant	-	10	5	0.5	6.4	0.4	0.8	4.5	13.4	17.7	32.5	(D)	(D)	(D)
Murfreesboro	-	68	29	5.3	54.9	4.0	7.5	34.7	136.7	134.6	272.4	6.4	5.1	80.0
Nashville-Davidson	-	829	281	48.4	596.1	31.1	60.2	341.8	1 193.9	1 540.9	2 720.5	96.8	(NA)	(NA)
Newport	-	28	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Oak Ridge	-	53	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Oneida	E1	18	5	0.7	5.4	0.6	1.1	4.0	11.6	16.9	27.8	2.2	0.9	11.9
Paris	-	30	13	3.8	35.7	3.2	6.1	28.0	100.1	113.1	210.9	(D)	3.0	41.2
Portland	-	21	11	1.3	9.3	1.1	1.9	7.3	21.8	20.7	41.8	1.5	0.9	6.5
Pulaski	-	22	11	1.6	12.8	1.4	2.7	10.1	24.8	26.3	48.8	(D)	1.7	14.9
Ripley	-	17	9	1.7	14.1	1.6	3.3	12.8	23.7	34.4	58.3	2.0	0.6	5.3
Rockwood	-	7	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	10.3
Rogersville	-	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Savannah	-	33	9	1.9	11.8	1.8	3.0	9.7	22.1	20.9	42.5	0.5	1.3	11.3
Selmer	-	19	8	1.9	16.6	1.7	3.0	11.9	36.3	28.1	63.4	1.7	1.6	23.8
Sevierville	-	21	9	1.0	7.3	0.8	1.6	5.9	20.6	12.4	32.8	0.5	1.5	17.5
Shelbyville	-	48	29	4.6	40.6	3.9	7.5	31.6	122.4	155.1	272.7	(D)	4.1	73.2
Smithville	-	12	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	11.8
Smyrna	-	27	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	9.0
South Pittsburg	-	15	8	1.1	10.3	1.0	1.9	8.1	23.2	19.7	42.7	1.7	0.9	6.3
Sparta	-	30	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	21.3
Springfield	-	34	19	3.0	26.6	2.1	3.9	16.4	64.9	85.7	153.2	3.7	2.1	31.6
Sweetwater	-	25	9	1.1	10.0	1.0	1.9	7.8	23.5	20.2	43.9	1.8	0.5	6.8
Trenton	-	8	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	7.6
Tullahoma	-	47	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	37.8
Union City	-	20	8	4.6	62.0	4.0	8.3	50.3	186.1	263.4	447.3	(D)	(D)	(D)
Winchester	-	18	5	0.7	6.7	0.6	1.2	5.5	9.7	44.6	56.0	0.5	(NA)	(NA)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	6 487	2 477	489.8	5 218.7	375.7	720.3	3 481.2	12 663.4	16 318.9	28 752.0	961.1	467.4	7 662.0
20	**Food and kindred products**	-	508	253	37.2	436.5	24.5	49.6	250.0	1 279.9	3 473.1	4 784.6	104.0	32.8	690.2
201	Meat products	-	126	37	8.1	91.3	6.5	13.4	67.7	219.0	823.8	1 046.5	8.4	6.8	113.4
2011	Meat packing plants	E1	76	18	4.5	55.1	3.6	7.7	40.6	145.4	534.5	682.1	5.8	5.2	84.7
2013	Sausages and other prepared meats	-	39	12	1.8	24.7	1.3	2.5	17.1	55.7	210.1	266.7	1.3	0.9	20.2
2016	Poultry dressing plants	-	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
20	**Food and kindred products**—Con.														
202	Dairy products	–	52	36	3.4	40.2	1.7	3.4	16.9	103.4	323.6	430.0	20.3	3.5	68.4
2022	Cheese, natural and processed	–	12	6	0.3	2.8	0.2	0.4	1.9	10.3	37.7	47.6	0.3	BB	(D)
2023	Condensed and evaporated milk	–	6	3	0.3	2.7	0.2	0.4	2.2	5.8	49.4	57.2	(D)	0.3	6.1
2024	Ice cream and frozen desserts	–	10	8	0.5	5.2	0.3	0.6	2.5	13.3	29.1	42.3	0.6	0.6	12.1
2026	Fluid milk	–	21	16	2.2	28.5	0.9	1.9	9.8	72.7	179.5	251.6	19.1	2.2	42.0
203	Preserved fruits and vegetables	–	37	19	3.6	31.1	2.9	5.7	21.7	93.8	166.5	260.3	5.0	2.1	30.0
2032	Canned specialties	–	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2033	Canned fruits and vegetables	–	11	5	0.6	3.7	0.5	0.6	2.3	9.0	17.5	26.5	0.4	0.4	4.5
2035	Pickles, sauces, and salad dressings	–	11	4	0.2	2.4	0.1	0.2	0.7	6.1	14.2	20.3	0.4	(NA)	(NA)
2037	Frozen fruits and vegetables	–	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2038	Frozen specialties	–	9	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
204	Grain mill products	–	75	36	3.3	44.9	2.4	5.3	32.1	230.0	510.2	739.2	14.2	3.4	113.8
2041	Flour and other grain mill products	–	22	10	0.9	10.7	0.6	1.4	6.9	62.6	152.8	218.6	3.1	1.2	42.3
2043	Cereal breakfast foods	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2047	Dog, cat, and other pet food	–	7	6	0.3	3.5	0.2	0.5	2.5	13.4	60.1	73.2	1.2	(NA)	(NA)
2048	Prepared feeds, n.e.c.	E1	39	15	1.0	10.4	0.6	1.3	5.7	30.3	179.5	209.4	3.2	EE	(D)
205	Bakery products	–	49	35	7.0	86.4	3.9	7.8	39.2	197.1	156.8	354.3	10.2	6.5	102.9
2051	Bread, cake, and related products	–	45	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2052	Cookies and crackers	–	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
206	Sugar and confectionery products	–	9	6	1.3	11.7	1.1	2.1	7.1	36.6	29.7	67.4	4.1	1.2	20.4
2065	Confectionery products	–	9	6	1.3	11.7	1.1	2.1	7.1	36.6	29.7	67.4	4.1	CC	(D)
207	Fats and oils	–	26	15	2.1	28.9	1.5	3.2	18.5	51.5	954.0	1 028.0	10.4	1.8	43.9
2074	Cottonseed oil mills	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2075	Soybean oil mills	–	5	5	0.6	9.2	0.5	1.1	6.3	8.7	539.5	555.1	2.5	BB	(D)
2077	Animal and marine fats and oils	–	14	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	4.4
2079	Shortening and cooking oils	–	3	3	0.9	13.1	0.6	1.3	8.2	25.2	311.3	353.0	4.5	CC	(D)
208	Beverages	–	72	51	5.4	66.7	2.2	4.3	23.5	254.5	344.8	599.0	20.7	5.0	145.9
2082	Malt beverages	–	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2085	Distilled liquor, except brandy	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2086	Bottled and canned soft drinks	–	66	46	4.0	43.5	1.3	2.7	10.4	115.7	169.9	284.3	14.8	FF	(D)
209	Miscellaneous foods and kindred products	–	62	18	3.0	35.3	2.2	4.4	23.3	94.0	163.7	259.9	10.9	2.5	51.6
2095	Roasted coffee	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2099	Food preparations, n.e.c.	–	43	15	2.6	29.3	1.9	3.8	19.4	72.0	119.2	193.5	10.1	2.0	37.9
21	**Tobacco products**	–	**8**	**7**	**1.1**	**10.2**	**0.9**	**1.6**	**6.1**	**41.9**	**76.3**	**118.3**	**(D)**	**1.1**	**27.7**
2131	Chewing and smoking tobacco	–	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2141	Tobacco stemming and redrying	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
22	**Textile mill products**	–	**171**	**107**	**27.1**	**226.4**	**24.1**	**48.2**	**182.6**	**426.5**	**689.6**	**1 110.5**	**37.2**	**32.4**	**340.0**
2211	Weaving mills, cotton	–	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2221	Weaving mills, manmade fiber and silk	–	7	5	2.4	25.8	2.1	4.6	19.3	47.3	36.3	79.1	(D)	FF	(D)
2241	Narrow fabric mills	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
225	Knitting mills	–	80	57	12.9	92.5	11.5	21.7	74.2	173.7	239.4	412.4	9.1	16.2	145.6
2251	Women's hosiery, except socks	–	14	9	2.2	15.0	2.0	3.5	11.6	20.6	28.5	50.3	0.7	5.0	38.8
2252	Hosiery, n.e.c.	–	35	29	4.2	27.4	3.8	6.9	22.7	50.6	62.2	111.7	1.9	4.4	32.9
2253	Knit outerwear mills	–	11	5	0.7	4.1	0.6	1.2	3.4	6.3	5.0	11.4	0.1	BB	(D)
2254	Knit underwear mills	–	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2257	Circular knit fabric mills	–	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2258	Warp knit fabric mills	–	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
226	Textile finishing, except wool	–	17	8	1.4	12.4	1.2	2.5	9.4	25.3	74.4	101.4	1.2	1.3	17.6
2262	Finishing plants, synthetics	–	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2269	Finishing plants, n.e.c.	–	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
227	Floor covering mills	–	11	6	1.3	14.4	1.1	2.4	10.1	23.7	78.2	102.3	(D)	1.6	25.1
2272	Tufted carpets and rugs	–	11	6	1.3	14.4	1.1	2.4	10.1	23.7	78.2	102.3	(D)	EE	(D)
228	Yarn and thread mills	–	19	14	4.8	43.2	4.5	9.3	37.9	90.0	147.1	234.3	10.4	5.2	51.5
2281	Yarn mills, except wool	–	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2282	Throwing and winding mills	–	7	7	3.0	27.6	2.8	5.9	24.3	58.2	111.7	168.1	8.1	FF	(D)
2284	Thread mills	–	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
229	Miscellaneous textile goods	–	30	12	2.1	19.9	1.8	3.7	15.8	37.5	82.5	118.9	0.9	EE	(D)
2295	Coated fabrics, not rubberized	–	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2296	Tire cord and fabric	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2298	Cordage and twine	–	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2299	Textile goods, n.e.c.	–	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. **Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
23	**Apparel and other textile products**	**-**	**443**	**313**	**69.9**	**441.1**	**61.7**	**107.7**	**358.6**	**919.1**	**849.8**	**1 741.9**	**(D)**	**68.2**	**589.3**
2311	Men's and boys' suits and coats	E1	21	17	5.3	36.8	4.8	7.9	30.5	79.7	36.8	112.8	(D)	4.4	39.6
232	Men's and boys' furnishings	-	185	162	41.3	253.4	36.7	64.3	211.7	560.1	590.1	1 132.0	(D)	43.4	378.2
2321	Men's and boys' shirts and nightwear	-	59	54	12.8	74.2	11.4	20.0	60.6	143.3	154.2	290.1	(D)	14.9	115.5
2322	Men's and boys' underwear	E1	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2327	Men's and boys' separate trousers	-	21	15	5.8	42.7	5.4	9.9	38.3	62.0	57.6	118.9	2.3	8.5	84.5
2328	Men's and boys' work clothing	-	74	70	18.7	113.7	16.5	28.4	94.8	316.9	331.9	642.2	(D)	17.0	149.7
2329	Men's and boys' clothing, n.e.c.	-	27	20	3.1	17.5	2.7	4.7	13.9	28.3	38.9	64.2	1.3	FF	(D)
233	Women's and misses' outerwear	E2	126	79	12.7	72.4	11.3	19.1	58.5	132.1	70.8	204.4	(D)	9.7	71.7
2331	Women's and misses' blouses and waists	-	19	15	1.9	9.3	1.7	2.6	7.5	13.2	1.4	15.1	(D)	1.7	10.6
2335	Women's and misses' dresses	E4	57	25	3.7	21.6	3.4	5.6	18.0	32.4	12.3	44.6	0.4	3.1	21.0
2337	Women's and misses' suits and coats	-	16	12	2.2	12.4	1.8	3.3	9.6	31.4	31.5	65.4	0.3	EE	(D)
2339	Women's and misses' outerwear, n.e.c.	E2	34	27	5.0	29.0	4.3	7.6	23.3	55.1	25.6	79.4	1.6	FF	(D)
234	Women's and children's undergarments	-	9	7	2.0	12.3	1.7	3.1	9.3	19.9	15.4	35.0	(D)	EE	(D)
2341	Women's and children's underwear	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2342	Brassieres and allied garments	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
236	Children's outerwear	-	13	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	11.8
2361	Children's dresses and blouses	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2363	Children's coats and suits	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2369	Children's outerwear, n.e.c.	-	6	5	0.9	5.1	0.7	1.3	4.1	8.7	5.7	14.1	(D)	CC	(D)
238	Miscellaneous apparel and accessories	E1	13	8	1.2	6.6	1.1	2.0	5.1	11.6	6.2	16.0	(D)	1.6	10.5
2381	Fabric dress and work gloves	E2	4	3	0.4	2.6	0.4	0.8	2.0	3.8	5.5	9.3	0.1	0.9	6.4
2384	Robes and dressing gowns	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2386	Leather and sheep lined clothing	E1	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
239	Miscellaneous fabricated textile products	-	72	26	4.6	43.4	3.9	7.4	32.0	87.1	113.9	197.3	(D)	5.3	56.8
2391	Curtains and draperies	E1	17	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	2.4
2392	House furnishings, n.e.c.	-	11	6	0.5	3.7	0.4	0.8	2.5	10.5	11.1	20.9	0.5	0.7	7.7
2393	Textile bags	-	5	3	0.3	2.3	0.2	0.5	1.7	4.5	11.2	15.6	(D)	AA	(D)
2394	Canvas and related products	-	10	3	0.5	5.0	0.4	0.7	2.9	6.0	16.6	23.2	(D)	CC	(D)
2396	Automotive and apparel trimmings	-	11	6	0.3	2.5	0.2	0.4	1.8	6.2	10.3	16.5	0.1	AA	(D)
2399	Fabricated textile products, n.e.c.	-	12	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	31.8
24	**Lumber and wood products**	**E1**	**979**	**192**	**16.7**	**131.3**	**14.4**	**26.5**	**99.4**	**261.6**	**344.9**	**606.2**	**26.7**	**16.4**	**196.3**
2411	Logging camps and logging contractors	E5	198	4	0.7	5.5	0.6	0.9	4.6	10.1	12.5	22.6	1.1	BB	(D)
242	Sawmills and planing mills	E1	502	90	7.7	58.3	6.9	12.8	46.3	121.7	153.0	278.1	16.5	7.8	93.3
2421	Sawmills and planing mills, general	E3	423	49	3.6	26.1	3.2	5.7	20.7	57.3	68.2	125.2	8.3	3.1	56.5
2426	Hardwood dimension and flooring	-	65	37	3.8	30.1	3.5	6.7	24.0	66.0	80.0	145.5	(D)	4.5	34.6
2429	Special product sawmills, n.e.c.	-	14	4	0.3	2.1	0.2	0.4	1.5	(S)	4.8	7.4	(D)	0.2	2.2
243	Millwork, plywood, and structural members	E2	119	38	3.1	26.4	2.4	4.5	17.6	54.2	69.0	121.2	2.1	3.1	38.8
2431	Millwork	E3	35	12	1.4	12.2	1.1	2.1	7.9	23.0	36.4	57.9	0.8	1.2	13.8
2434	Wood kitchen cabinets	E1	60	14	1.0	8.5	0.7	1.3	5.9	19.6	19.9	39.0	0.9	CC	(D)
2435	Hardwood veneer and plywood	-	9	7	0.5	4.0	0.4	0.8	2.9	6.5	8.9	15.4	0.2	0.9	14.0
2439	Structural wood members, n.e.c.	E1	15	5	0.2	1.7	0.1	0.2	0.9	5.1	3.9	8.9	0.1	BB	(D)
244	Wood containers	E1	54	21	1.8	13.2	1.6	3.0	10.6	19.1	22.8	41.4	1.4	EE	(D)
2441	Nailed wood boxes and shook	-	9	4	0.5	3.3	0.5	0.9	2.7	4.2	5.4	9.1	(D)	BB	(D)
2448	Wood pallets and skids	E2	37	12	0.7	5.0	0.6	1.0	3.9	8.4	10.5	18.8	1.0	BB	(D)
2449	Wood containers, n.e.c.	-	8	5	0.6	4.8	0.5	1.0	4.0	6.5	6.9	13.5	(D)	0.7	6.7
245	Wood buildings and mobile homes	E1	26	15	1.6	12.8	1.3	2.3	8.9	25.5	52.7	78.1	2.4	1.7	26.7
2451	Mobile homes	E1	14	11	1.4	11.0	1.1	2.0	7.7	21.1	46.5	67.6	(D)	EE	(D)
2452	Prefabricated wood buildings	E1	12	4	0.2	1.8	0.2	0.3	1.1	4.4	6.2	10.5	(D)	BB	(D)
249	Miscellaneous wood products	-	80	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	21.4
2491	Wood preserving	-	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2499	Wood products, n.e.c.	E1	74	21	1.6	13.0	1.4	2.6	9.9	23.0	24.4	46.9	(D)	EE	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
25	**Furniture and fixtures**	-	**341**	**132**	**23.0**	**191.6**	**19.4**	**36.5**	**135.6**	**381.2**	**373.6**	**752.1**	**16.9**	**26.4**	**286.4**
251	Household furniture	-	262	103	19.3	158.9	16.4	30.6	112.4	297.3	301.6	593.6	14.0	22.8	237.9
2511	Wood household furniture	E1	113	28	6.9	54.1	6.1	11.5	39.3	95.8	90.6	186.0	5.5	6.2	69.2
2512	Upholstered household furniture	-	105	55	8.0	64.6	6.8	12.5	47.5	118.6	121.5	237.4	4.8	8.5	89.8
2514	Metal household furniture	-	10	7	1.9	18.6	1.5	2.7	11.5	40.8	41.1	79.9	2.0	2.0	22.8
2515	Mattresses and bedsprings	-	24	8	1.1	10.1	0.8	1.5	5.2	23.4	29.7	52.6	0.8	1.7	21.4
2517	Wood TV and radio cabinets	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2519	Household furniture, n.e.c.	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
252	Office furniture	-	9	3	0.2	2.6	0.2	0.4	1.8	11.0	3.8	15.1	0.2	BB	(D)
2522	Metal office furniture	-	3	3	0.2	2.5	0.2	0.3	1.7	10.7	3.6	14.5	0.2	BB	(D)
2531	Public building and related furniture	-	17	9	0.6	6.1	0.5	1.0	4.1	12.0	11.5	23.3	0.5	CC	(D)
254	Partitions and fixtures	E1	35	10	1.4	11.9	1.1	2.2	8.6	28.5	31.1	59.1	1.6	EE	(D)
2541	Wood partitions and fixtures	E1	28	5	0.8	5.6	0.6	1.3	4.3	8.8	14.4	23.2	(D)	1.0	12.2
2542	Metal partitions and fixtures	E1	7	5	0.7	6.3	0.5	0.9	4.3	19.6	16.6	36.0	(D)	0.5	7.8
259	Miscellaneous furniture and fixtures	-	18	7	1.4	12.0	1.1	2.4	8.7	32.4	25.6	61.0	0.6	1.0	13.3
2591	Drapery hardware and blinds and shades	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2599	Furniture and fixtures, n.e.c.	-	12	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
26	**Paper and allied products**	-	**136**	**101**	**16.5**	**211.8**	**12.5**	**25.5**	**149.0**	**618.4**	**775.9**	**1 389.2**	**99.2**	**16.3**	**360.9**
2611	Pulp mills	-	3	3	0.9	11.8	0.4	1.1	6.0	26.9	40.0	64.0	(D)	CC	(D)
2621	Paper mills, except building paper	-	4	4	2.8	51.0	2.3	4.9	40.0	156.1	177.3	334.5	(D)	FF	(D)
2631	Paperboard mills	-	8	7	1.4	22.9	1.1	2.3	16.1	78.3	92.5	170.7	27.3	EE	(D)
264	Miscellaneous converted paper products	-	48	31	6.5	69.5	4.9	9.8	47.9	230.4	256.9	485.9	12.2	6.1	147.0
2641	Paper coating and glazing	-	10	6	0.8	7.1	0.6	1.2	4.8	21.0	37.1	58.3	1.2	0.6	12.1
2642	Envelopes	-	4	4	0.5	4.7	0.4	0.7	3.1	10.2	10.2	20.2	0.1	BB	(D)
2643	Bags, except textile bags	-	12	10	1.4	15.2	1.2	2.4	11.5	32.1	56.0	89.7	1.7	1.3	20.8
2647	Sanitary paper products	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2648	Stationery products	E1	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.7
2649	Converted paper products, n.e.c.	-	12	5	2.3	20.5	1.5	2.9	11.4	83.9	60.4	142.1	(D)	EE	(D)
265	Paperboard containers and boxes	-	71	54	4.7	56.1	3.7	7.4	38.4	125.3	208.0	331.6	9.0	5.6	74.8
2651	Folding paperboard boxes	-	14	11	1.0	11.0	0.8	1.7	8.4	28.3	39.1	67.1	2.1	1.1	16.0
2652	Setup paperboard boxes	-	7	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2653	Corrugated and solid fiber boxes	-	39	29	2.9	36.5	2.1	4.4	23.2	72.3	137.4	208.7	5.8	3.2	43.9
2655	Fiber cans, drums, and similar products	-	9	8	0.5	5.9	0.4	0.8	4.8	15.5	23.7	38.8	0.6	0.8	10.2
27	**Printing and publishing**	-	**862**	**152**	**23.8**	**257.4**	**14.1**	**26.8**	**142.2**	**509.7**	**297.1**	**807.1**	**48.5**	**19.4**	**274.4**
2711	Newspapers	-	152	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.1	90.8
2721	Periodicals	-	41	11	2.2	25.1	0.4	0.7	3.6	43.5	24.4	68.2	3.1	2.2	31.1
273	Books	-	35	12	5.4	56.7	3.9	7.5	35.3	111.7	74.1	186.1	(D)	3.1	35.2
2731	Book publishing	-	23	6	0.8	11.3	0.2	0.4	1.7	33.8	31.2	63.8	4.6	BB	(D)
2732	Book printing	-	12	6	4.6	45.3	3.7	7.1	33.6	77.9	43.0	122.3	(D)	FF	(D)
2741	Miscellaneous publishing	E4	85	6	0.4	3.9	0.1	0.2	0.8	9.3	4.2	13.5	0.2	0.6	9.5
275	Commercial printing	E1	450	61	6.5	79.9	5.2	9.8	58.8	140.0	116.0	255.8	22.2	5.5	85.5
2751	Commercial printing, letterpress	E3	258	15	1.4	15.0	1.1	2.0	10.5	29.3	19.7	49.2	(D)	EE	(D)
2752	Commercial printing, lithographic	-	174	41	4.2	49.5	3.3	6.0	35.4	82.4	56.5	138.6	3.6	2.4	33.5
2754	Commercial printing, gravure	-	10	4	0.9	14.8	0.8	1.7	12.5	27.0	39.4	66.4	(D)	CC	(D)
2761	Manifold business forms	E5	14	6	0.3	3.5	0.2	0.4	2.4	6.9	6.3	13.2	0.5	0.4	3.7
278	Blankbooks and bookbinding	-	22	10	1.2	10.5	1.0	1.9	8.6	21.7	10.3	32.0	1.3	0.5	5.0
2782	Blankbooks and looseleaf binders	-	13	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2789	Bookbinding and related work	-	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
279	Printing trade services	E1	62	12	0.9	12.0	0.7	1.3	8.2	20.7	6.0	26.7	1.6	CC	(D)
2791	Typesetting	E3	40	5	0.3	4.1	0.3	0.5	3.1	7.6	1.2	8.8	(D)	0.3	4 6
2793	Photoengraving	-	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2795	Lithographic platemaking services	-	13	6	0.4	5.1	0.3	0.5	3.2	9.0	3.6	12.6	0.7	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
28	**Chemicals and allied products**	-	**242**	**109**	**53.0**	**803.7**	**33.8**	**66.0**	**441.1**	**2 275.7**	**2 398.1**	**4 650.7**	**191.1**	**50.5**	**1 396.0**
281	Industrial inorganic chemicals	-	47	23	17.7	280.8	10.4	20.4	143.0	997.6	605.5	1 600.0	65.8	12.4	454.3
2813	Industrial gases	-	22	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2816	Inorganic pigments	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2819	Industrial inorganic chemicals, n.e.c.	-	21	18	16.6	261.1	9.6	18.9	131.9	876.5	526.0	1 399.9	55.5	11.3	388.4
282	Plastics materials and synthetics	-	16	16	19.8	301.2	14.1	26.9	185.6	602.3	887.3	1 496.5	47.6	21.3	447.8
2821	Plastics materials and resins	-	6	6	2.3	37.7	1.5	2.9	21.6	158.5	190.7	348.1	4.0	EE	(D)
2823	Cellulosic manmade fibers	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2824	Organic fibers, noncellulosic	-	8	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
283	Drugs	-	21	8	2.8	38.3	1.5	3.2	14.6	163.2	59.8	216.5	4.3	3.3	111.2
2834	Pharmaceutical preparations	-	13	6	2.8	37.3	1.4	3.1	14.1	160.5	58.3	212.3	4.2	3.3	111.2
284	Soaps, cleaners, and toilet goods	-	46	12	1.6	15.6	1.1	2.0	8.2	96.4	57.5	153.0	3.4	1.3	47.3
2841	Soap and other detergents	E1	7	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2842	Polishes and sanitation goods	-	22	3	0.2	2.2	0.1	0.2	0.9	11.5	18.8	30.2	(D)	BB	(D)
2844	Toilet preparations	-	12	6	1.1	9.7	0.9	1.6	6.3	75.9	22.4	97.3	2.2	0.7	30.6
2851	Paints and allied products	E2	23	8	0.6	7.4	0.4	0.7	3.2	12.5	34.9	49.0	0.8	0.7	12.2
286	Industrial organic chemicals	-	15	11	6.4	107.9	4.0	8.0	58.0	212.0	541.2	751.2	60.3	5.9	205.0
2865	Cyclic crudes and intermediates	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2869	Industrial organic chemicals, n.e.c.	-	12	8	6.2	104.2	3.8	7.7	56.2	196.4	517.1	712.4	(D)	FF	(D)
287	Agricultural chemicals	-	23	16	1.5	16.4	1.0	2.0	10.4	106.6	109.4	197.2	6.0	1.4	47.1
2873	Nitrogenous fertilizers	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2875	Fertilizers, mixing only	-	12	9	0.4	3.5	0.3	0.5	2.1	14.6	45.1	54.2	1.0	0.3	6.9
2879	Agricultural chemicals, n.e.c.	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	17.6
289	Miscellaneous chemical products	-	51	15	2.6	36.1	1.5	2.9	18.2	85.1	102.5	187.3	2.9	4.1	71.1
2891	Adhesives and sealants	-	10	3	0.2	1.8	0.1	0.3	1.0	8.7	17.4	26.0	0.3	BB	(D)
2892	Explosives	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2899	Chemical preparations, n.e.c.	-	24	8	0.7	8.8	0.5	0.9	4.7	26.3	63.7	89.8	2.4	CC	(D)
29	**Petroleum and coal products**	-	**41**	**12**	**1.0**	**13.1**	**0.6**	**1.4**	**8.4**	**104.1**	**269.8**	**371.0**	**3.2**	**0.8**	**18.3**
2911	Petroleum refining	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
295	Paving and roofing materials	-	33	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2951	Paving mixtures and blocks	-	27	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	8.0
2952	Asphalt felts and coatings	-	6	4	0.3	3.0	0.2	0.4	2.3	7.8	19.0	26.6	0.5	0.3	5.0
30	**Rubber and miscellaneous plastics products**	-	**191**	**105**	**21.6**	**262.3**	**17.7**	**36.0**	**196.8**	**681.2**	**780.9**	**1 439.6**	**47.7**	**16.1**	**414.2**
3011	Tires and inner tubes	-	11	8	8.3	129.5	6.8	14.1	101.9	326.3	357.6	668.3	18.8	5.5	179.6
3031	Reclaimed rubber	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3041	Rubber and plastics hose and belting	-	7	5	1.4	13.0	1.2	2.4	9.8	30.4	41.4	70.5	3.6	CC	(D)
3069	Fabricated rubber products, n.e.c.	-	26	18	3.5	38.2	2.9	6.1	27.6	85.2	173.2	259.0	4.6	2.1	32.1
3079	Miscellaneous plastics products	-	144	72	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.9	178.7
31	**Leather and leather products**	-	**92**	**68**	**17.7**	**126.7**	**15.7**	**29.3**	**100.1**	**307.3**	**265.3**	**562.9**	**7.1**	**19.4**	**217.3**
3111	Leather tanning and finishing	-	11	7	1.0	9.1	0.8	1.6	6.2	30.4	41.0	70.4	(D)	0.9	14.0
314	Footwear, except rubber	-	39	38	13.4	91.8	12.3	22.7	78.4	224.1	180.5	398.4	(D)	15.8	178.8
3142	House slippers	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3143	Men's footwear, except athletic	-	20	19	7.5	53.5	7.0	13.2	45.2	123.7	115.0	234.7	(D)	FF	(D)
3144	Women's footwear, except athletic	-	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	33.8
3149	Footwear, except rubber, n.e.c.	-	10	10	2.9	19.2	2.7	4.7	16.9	49.3	33.1	80.5	0.9	FF	(D)
3151	Leather gloves and mittens	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3161	Luggage	-	9	5	1.6	13.1	1.1	2.2	6.1	27.0	18.2	44.3	(D)	CC	(D)
317	Handbags and other personal leather goods	E3	11	4	0.7	5.2	0.6	1.4	4.3	8.3	5.7	13.6	(D)	0.8	6.9
3171	Women's handbags and purses	E3	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3199	Leather goods, n.e.c.	-	19	12	0.8	6.0	0.6	1.1	3.8	14.3	16.4	29.8	(D)	1.0	12.5

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
32	**Stone, clay, and glass products**	–	**342**	**115**	**14.8**	**198.7**	**12.1**	**24.2**	**150.4**	**446.6**	**380.1**	**825.1**	**63.1**	**16.9**	**358.0**
3211	Flat glass	–	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
322	Glass and glassware, pressed or blown	–	9	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	39.1
3221	Glass containers	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3229	Pressed and blown glass, n.e.c.	–	8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3231	Products of purchased glass	–	15	5	0.3	3.1	0.2	0.5	2.3	3.1	9.2	15.5	0.9	CC	(D)
3241	Cement, hydraulic	–	11	6	0.9	13.9	0.7	1.4	11.4	29.6	35.2	66.2	(D)	0.8	30.3
325	Structural clay products	–	8	8	0.9	8.1	0.8	1.5	6.7	23.2	14.4	37.9	1.5	1.0	17.3
3251	Brick and structural clay tile	–	7	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3253	Ceramic wall and floor tile	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
326	Pottery and related products	E1	18	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	17.7
3264	Porcelain electrical supplies	–	5	4	0.6	4.6	0.5	0.9	3.6	9.1	4.9	13.8	(D)	EE	(D)
3269	Pottery products, n.e.c.	E4	13	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
327	Concrete, gypsum, and plaster products	E1	224	70	3.8	39.2	2.8	5.2	23.8	89.6	105.8	194.5	11.6	4.0	67.8
3271	Concrete block and brick	E1	34	12	0.6	6.0	0.4	0.7	3.2	12.2	15.3	27.4	1.6	CC	(D)
3272	Concrete products, n.e.c.	E1	92	23	1.6	16.2	1.2	2.3	10.0	31.5	30.5	61.5	3.4	1.5	20.5
3273	Ready-mixed concrete	E1	96	34	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	33.8
3281	Cut stone and stone products	–	20	4	0.2	2.2	0.2	0.4	1.6	4.3	3.4	7.7	0.2	0.4	3.4
329	Miscellaneous nonmetallic mineral products	–	34	9	1.8	18.2	1.5	2.9	11.5	49.8	32.2	81.7	4.9	2.1	30.2
3292	Asbestos products	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3293	Gaskets, packing, and sealing devices	–	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3295	Minerals, ground or treated	–	10	3	0.2	1.8	0.1	0.3	1.2	7.8	3.1	10.7	(D)	(NA)	(NA)
33	**Primary metal industries**	–	**118**	**68**	**17.4**	**255.2**	**14.5**	**30.0**	**202.3**	**525.3**	**1 268.7**	**1 731.8**	**72.9**	**17.1**	**270.5**
331	Blast furnace and basic steel products	–	16	13	2.4	32.1	2.0	4.0	23.2	67.5	156.1	211.5	6.3	3.1	43.2
3312	Blast furnaces and steel mills	–	6	5	0.8	11.9	0.7	1.3	8.7	25.1	37.0	62.1	(D)	EE	(D)
3313	Electrometallurgical products	–	3	3	0.7	9.6	0.6	1.2	7.5	19.2	55.0	65.2	(D)	0.7	12.8
3315	Steel wire and related products	–	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.1
3317	Steel pipe and tubes	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
332	Iron and steel foundries	–	35	21	6.0	71.9	5.1	10.5	57.6	116.9	128.2	246.2	12.9	5.0	66.9
3321	Gray iron foundries	–	28	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3322	Malleable iron foundries	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3325	Steel foundries, n.e.c.	–	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
333	Primary nonferrous metals	–	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3334	Primary aluminum	–	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3341	Secondary nonferrous metals	–	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing	–	13	11	5.4	94.3	4.6	9.6	78.4	157.6	702.5	811.1	(D)	5.8	79.3
3351	Copper rolling and drawing	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3353	Aluminum sheet, plate, and foil	–	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3354	Aluminum extruded products	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3355	Aluminum rolling and drawing, n.e.c.	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3356	Nonferrous rolling and drawing, n.e.c.	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3357	Nonferrous wire drawing and insulating	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
336	Nonferrous foundries	–	27	11	0.9	9.0	0.8	1.5	6.7	17.6	20.3	37.7	1.9	CC	(D)
3361	Aluminum foundries	–	15	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3369	Nonferrous foundries, n.e.c.	–	8	5	0.5	4.7	0.4	0.6	3.4	9.7	12.7	22.3	1.1	AA	(D)
339	Miscellaneous primary metal products	–	16	5	0.4	5.7	0.3	0.7	3.8	13.1	16.4	29.2	1.0	0.3	8.1
3399	Primary metal products, n.e.c.	–	10	3	0.3	4.4	0.2	0.5	2.9	10.1	15.4	25.3	0.5	0.2	6.0
34	**Fabricated metal products**	–	**522**	**224**	**33.4**	**387.3**	**26.4**	**51.1**	**274.3**	**833.0**	**889.6**	**1 688.5**	**50.8**	**30.6**	**448.0**
341	Metal cans and shipping containers	–	16	7	0.7	9.9	0.5	1.2	7.3	38.2	69.1	106.4	1.3	0.5	18.3
3411	Metal cans	–	11	5	0.5	7.8	0.4	0.9	6.1	34.6	63.5	97.7	(D)	0.4	16.9
3412	Metal barrels, drums, and pails	E1	5	2	0.2	2.1	0.1	0.3	1.3	3.6	5.6	8.7	(D)	(NA)	(NA)
342	Cutlery, hand tools, and hardware	–	20	12	3.4	37.1	2.6	5.2	24.3	81.7	42.0	122.9	7.4	3.0	48.2
3423	Hand and edge tools, n.e.c.	–	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3429	Hardware, n.e.c.	–	9	5	2.9	32.0	2.2	4.3	20.8	68.2	33.9	101.8	(D)	2.8	46.4

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		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
34	**Fabricated metal products**—Con.														
343	Plumbing and heating, except electric	–	12	7	1.2	12.0	1.0	1.7	8.9	29.7	36.0	64.4	1.8	1.8	21.4
3431	Metal sanitary ware	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3433	Heating equipment, except electric	E1	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	14.0
344	Fabricated structural metal products	–	252	100	13.6	178.0	10.3	19.3	120.9	322.2	414.8	730.0	16.5	12.8	200.5
3441	Fabricated structural metal	–	72	30	2.6	31.3	2.0	3.7	20.6	65.7	84.1	146.9	3.3	1.9	26.4
3442	Metal doors, sash, and trim	–	37	15	2.1	20.6	1.6	2.8	13.4	46.2	61.0	105.9	2.3	1.3	14.4
3443	Fabricated plate work (boiler shops)	–	30	20	6.8	100.5	5.2	9.7	71.0	158.2	176.9	330.2	6.7	6.9	122.8
3444	Sheet metal work	–	60	18	1.0	12.0	0.7	1.4	7.2	22.6	42.9	67.8	2.4	1.2	18.1
3446	Architectural metal work	–	30	8	0.5	6.0	0.4	0.7	3.4	13.1	13.4	25.9	0.8	0.6	8.2
3448	Prefabricated metal buildings	E1	12	5	0.5	5.6	0.4	0.7	4.2	13.8	19.0	32.6	0.5	0.4	4.9
3449	Miscellaneous metal work	E1	11	4	0.2	2.0	0.1	0.2	1.1	2.5	17.5	20.6	0.5	0.4	5.7
345	Screw machine products, bolts, etc.	–	13	9	0.7	7.4	0.7	1.4	6.0	18.1	13.3	31.0	0.3	0.8	12.4
3451	Screw machine products	–	5	5	0.3	3.1	0.3	0.6	2.6	6.0	3.1	9.0	(D)	0.4	5.0
3452	Bolts, nuts, rivets, and washers	–	8	4	0.5	4.4	0.4	0.8	3.4	12.1	10.2	22.0	(D)	0.4	7.5
346	Metal forgings and stampings	–	43	23	2.5	26.4	2.2	4.4	20.3	68.3	88.6	154.9	6.5	2.0	26.2
3462	Iron and steel forgings	–	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3465	Automotive stampings	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3469	Metal stampings, n.e.c.	–	32	15	1.8	16.9	1.6	3.1	13.1	45.2	65.3	109.8	5.0	1.3	15.7
347	Metal services, n.e.c.	–	61	20	1.8	16.3	1.6	3.3	13.5	27.5	22.3	49.8	3.1	0.9	9.3
3471	Plating and polishing	–	46	16	1.6	14.1	1.4	3.0	11.9	24.2	19.3	43.5	2.8	0.8	8.5
3479	Metal coating and allied services	E1	15	4	0.2	2.2	0.2	0.4	1.6	3.2	3.0	6.2	0.2	(NA)	(NA)
348	Ordnance and accessories, n.e.c.	–	8	5	3.7	40.0	2.8	5.2	28.1	94.8	71.6	160.8	2.2	3.6	33.8
3483	Ammunition, except for small arms, n.e.c.	–	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3489	Ordnance and accessories, n.e.c.	–	2	2	EF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	97	41	5.7	60.2	4.7	9.4	45.0	152.6	131.8	268.4	11.8	5.3	77.8
3493	Steel springs, except wire	–	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3494	Valves and pipe fittings	–	10	4	1.5	19.4	1.2	2.4	14.6	63.4	41.7	94.4	3.7	1.9	38.9
3495	Wire springs	–	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3496	Miscellaneous fabricated wire products	–	18	13	1.3	10.2	1.0	2.0	7.2	26.5	23.0	47.5	(D)	1.0	12.9
3497	Metal foil and leaf	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3498	Fabricated pipe and fittings	–	8	6	0.6	6.0	0.5	0.9	4.2	14.7	15.4	29.4	2.1	AA	(D)
3499	Fabricated metal products, n.e.c.	–	50	12	1.3	12.7	1.1	2.2	9.6	25.0	27.1	50.8	2.3	CC	(D)
35	**Machinery, except electrical**	–	**587**	**162**	**29.7**	**356.1**	**23.0**	**44.8**	**244.8**	**1 118.7**	**933.4**	**2 035.5**	**48.8**	**25.9**	**518.1**
351	Engines and turbines	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3519	Internal combustion engines, n.e.c.	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
352	Farm and garden machinery	–	22	6	2.9	50.5	2.2	4.0	35.9	84.5	85.3	171.5	(D)	3.1	62.6
3523	Farm machinery and equipment	–	21	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
353	Construction and related machinery	–	36	19	2.3	27.4	1.5	3.1	17.3	61.6	68.2	128.4	1.8	1.3	24.8
3531	Construction machinery	–	11	7	1.2	13.1	0.7	1.4	8.1	27.5	34.5	61.3	1.0	0.5	10.2
3534	Elevators and moving stairways	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3535	Conveyors and conveying equipment	E2	11	5	0.3	3.1	0.2	0.3	1.5	5.9	8.4	14.3	0.2	0.3	4.5
3536	Hoists, cranes, and monorails	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3537	Industrial trucks and tractors	E3	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
354	Metalworking machinery	E1	143	28	2.8	33.4	2.3	4.6	25.0	69.8	49.3	119.3	4.8	EE	(D)
3544	Special dies, tools, jigs, and fixtures	E2	108	18	1.1	15.5	1.0	2.0	11.8	22.4	10.3	32.1	2.7	0.9	13.8
3545	Machine tool accessories	–	12	6	0.5	6.0	0.4	0.9	4.9	10.5	8.7	18.3	1.0	BB	(D)
3546	Power driven hand tools	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3549	Metalworking machinery, n.e.c.	–	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
355	Special industry machinery	–	42	21	3.1	35.2	2.3	4.5	23.7	79.2	96.4	176.7	6.4	2.2	38.1
3552	Textile machinery	–	12	9	0.8	10.1	0.6	1.2	6.9	16.4	15.9	34.1	(D)	0.9	12.8
3553	Woodworking machinery	–	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3559	Special industry machinery, n.e.c.	–	16	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
35	**Machinery, except electrical**—Con.														
356	General industrial machinery	–	64	29	3.9	45.5	2.7	5.4	28.4	109.6	91.1	199.7	6.4	2.9	45.3
3561	Pumps and pumping equipment	–	9	4	0.7	7.3	0.4	0.8	4.1	22.1	14.4	36.4	2.0	BB	(D)
3562	Ball and roller bearings	–	5	4	1.3	15.6	1.1	2.4	12.4	39.9	37.5	76.2	2.6	BB	(D)
3564	Blowers and fans	–	11	6	0.7	9.4	0.4	0.7	3.6	19.8	20.4	40.3	0.7	0.4	6.2
3568	Power transmission equipment, n.e.c.	–	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3569	General industrial machinery, n.e.c.	–	21	10	0.6	6.0	0.4	0.7	3.4	12.0	7.9	20.0	0.9	0.7	9.9
357	Office and computing machines	–	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3573	Electronic computing equipment	–	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
358	Refrigeration and service machinery	–	42	26	9.6	95.3	7.7	14.8	70.1	341.7	409.1	747.6	16.9	8.1	156.4
3585	Refrigeration and heating equipment	–	26	19	8.6	85.3	6.9	13.2	63.3	319.1	389.2	706.1	16.3	7.1	137.4
3589	Service industry machinery, n.e.c.	–	13	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	230	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	47.8
3592	Carburetors, pistons, rings, and valves	–	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3599	Machinery, except electrical, n.e.c.	E2	225	27	2.2	27.7	1.8	3.6	19.7	50.1	25.9	74.9	4.0	EE	(D)
36	**Electric and electronic equipment**	–	**240**	**104**	**38.1**	**382.8**	**29.0**	**55.1**	**247.2**	**954.0**	**1 157.9**	**2 095.2**	**66.7**	**34.7**	**692.2**
361	Electric distributing equipment	–	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3613	Switchgear and switchboard apparatus	–	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
362	Electrical industrial apparatus	–	22	17	7.1	73.5	5.9	11.4	55.8	187.2	238.2	428.2	19.0	6.0	85.0
3621	Motors and generators	–	13	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3622	Industrial controls	–	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3624	Carbon and graphite products	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
363	Household appliances	–	36	30	12.2	116.1	9.6	18.9	76.0	285.5	394.1	685.2	17.0	11.2	189.9
3631	Household cooking equipment	–	14	13	5.1	53.6	3.8	7.3	33.2	107.7	197.5	309.0	7.5	FF	(D)
3634	Electric housewares and fans	–	12	11	4.0	30.7	3.4	6.3	21.2	97.4	93.0	193.3	4.9	FF	(D)
3639	Household appliances, n.e.c.	–	7	6	3.1	31.6	2.5	5.3	21.4	79.9	103.4	182.3	(D)	EE	(D)
364	Electric lighting and wiring equipment	–	25	17	3.5	34.7	2.9	5.3	26.0	123.5	78.5	200.1	5.9	3.6	77.3
3641	Electric lamps	–	3	3	2.0	19.5	1.7	3.1	15.9	72.5	26.9	99.7	2.0	EE	(D)
3644	Noncurrent-carrying wiring devices	–	4	3	0.5	6.1	0.4	0.7	4.3	17.3	14.7	32.1	(D)	0.6	10.4
3645	Residential lighting fixtures	–	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3646	Commercial lighting fixtures	–	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
365	Radio and TV receiving equipment	–	72	10	4.4	43.1	3.0	5.1	24.5	139.2	258.6	380.7	(D)	FF	(D)
3651	Radio and TV receiving sets	–	11	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3652	Phonograph records and prerecorded tape	–	61	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
366	Communication equipment	–	18	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.8	95.4
3661	Telephone and telegraph apparatus	–	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3662	Radio and TV communication equipment	E1	14	3	0.4	4.0	0.3	0.4	1.9	6.6	5.1	11.1	0.1	EE	(D)
367	Electronic components and accessories	–	28	8	2.7	24.4	2.2	4.1	17.3	42.8	53.2	94.5	3.6	1.1	9.6
3674	Semiconductors and related devices	–	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3675	Electronic capacitors	–	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3677	Electronic coils and transformers	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3679	Electronic components, n.e.c.	–	21	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	–	26	12	2.7	25.0	2.4	4.6	19.8	55.2	59.6	113.6	7.9	1.5	23.1
3691	Storage batteries	–	7	5	0.4	5.3	0.4	0.7	4.5	15.8	19.6	33.6	(D)	0.3	7.5
3692	Primary batteries, dry and wet	–	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3694	Engine electrical equipment	–	7	3	0.7	5.0	0.6	1.1	3.8	7.0	5.5	13.2	(D)	BB	(D)
3699	Electrical equipment and supplies, n.e.c.	–	11	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
37	**Transportation equipment**	-	**198**	**81**	**25.4**	**283.6**	**20.9**	**40.1**	**213.4**	**686.6**	**847.8**	**1 509.2**	**40.6**	**21.9**	**379.8**
371	Motor vehicles and equipment	-	88	47	16.6	180.7	13.5	26.6	137.8	476.5	570.0	1 046.2	(D)	12.1	232.4
3711	Motor vehicles and car bodies	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3713	Truck and bus bodies	-	18	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories	-	57	32	12.9	137.8	10.7	21.3	107.1	370.4	327.5	695.7	20.8	10.2	199.2
3715	Truck trailers	-	9	6	1.0	10.4	0.8	1.6	7.4	18.1	42.3	60.2	2.8	0.8	12.5
3716	Motor homes produced on purchased chassis	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts	-	8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3728	Aircraft equipment, n.e.c.	-	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
373	Ship and boat building and repairing	-	61	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	32.6
3731	Ship building and repairing	-	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3732	Boat building and repairing	E1	56	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3743	Railroad equipment	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3751	Motorcycles, bicycles, and parts	-	8	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
379	Miscellaneous transportation equipment	E2	27	5	0.4	3.8	0.4	0.6	2.7	8.2	11.0	19.2	(D)	0.9	10.0
3799	Transportation equipment, n.e.c.	E1	16	3	0.3	2.9	0.3	0.4	1.9	6.4	6.1	12.4	(D)	AA	(D)
38	**Instruments and related products**	-	**74**	**18**	**3.8**	**36.2**	**2.7**	**5.2**	**21.9**	**89.6**	**58.0**	**144.4**	**3.2**	**2.9**	**49.0**
3811	Engineering and scientific instruments	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
382	Measuring and controlling devices	-	16	4	1.0	7.6	0.7	1.2	5.6	19.2	18.4	37.9	1.0	CC	(D)
3822	Environmental controls	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3829	Measuring and controlling devices, n.e.c.	-	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.4
384	Medical instruments and supplies	-	35	8	1.0	10.8	0.7	1.3	6.1	35.6	16.8	49.3	1.3	1.2	22.0
3841	Surgical and medical instruments	E1	7	2	0.2	2.0	0.2	0.3	1.2	4.6	2.6	6.9	(D)	CC	(D)
3842	Surgical appliances and supplies	-	21	6	0.8	8.5	0.5	1.0	4.7	30.4	13.8	41.4	1.0	CC	(D)
3873	Watches, clocks, and watchcases	-	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
39	**Miscellaneous manufacturing industries**	-	**265**	**77**	**9.9**	**87.0**	**7.6**	**14.6**	**57.0**	**203.0**	**189.0**	**388.5**	**12.1**	**10.2**	**135.2**
3931	Musical instruments	-	9	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
394	Toys and sporting goods	-	47	18	1.8	14.4	1.6	2.8	11.2	26.8	33.1	60.4	(D)	2.1	29.3
3944	Games, toys, and children's vehicles	-	13	5	0.5	3.1	0.4	0.7	2.1	8.5	7.2	15.5	0.1	BB	(D)
3949	Sporting and athletic goods, n.e.c.	-	31	12	1.3	11.1	1.1	2.1	8.9	17.9	25.4	44.0	(D)	1.6	23.9
395	Pens, pencils, office and art supplies	-	21	12	2.4	19.5	1.8	3.7	13.2	48.0	58.8	105.6	(D)	2.4	31.8
3951	Pens and mechanical pencils	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3952	Lead pencils and art goods	-	9	8	1.6	12.9	1.2	2.5	8.2	29.6	45.7	74.3	3.2	EE	(D)
396	Costume jewelry and notions	-	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3964	Needles, pins, and fasteners	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
399	Miscellaneous manufactures	-	167	40	4.3	41.1	3.0	5.8	22.8	99.4	73.4	171.0	(D)	4.2	52.8
3991	Brooms and brushes	-	9	4	0.3	1.9	0.2	0.4	1.3	5.8	6.0	11.6	0.2	0.6	7.1
3993	Signs and advertising displays	-	87	19	2.2	21.3	1.5	2.8	11.1	41.9	32.8	74.3	2.1	2.1	32.0
3995	Burial caskets	-	21	9	1.0	10.0	0.7	1.6	6.8	34.1	21.4	55.1	(D)	1.1	9.5
3999	Manufacturing industries, n.e.c.	E1	50	8	0.8	7.9	0.6	1.0	3.7	17.7	13.1	30.0	1.4	0.4	4.3
--	**Administrative and auxiliary**	-	**127**	**77**	**8.8**	**119.8**	-	-	-	-	-	-	-	**(NA)**	**(NA)**

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Chattanooga, Tenn.-Ga., SMSA	-	**671**	**287**	**53.9**	**612.9**	**41.3**	**80.3**	**409.9**	**1 290.0**	**2 032.3**	**3 305.2**	**89.0**	**56.8**	**927.7**
20	Food and kindred products	-	49	29	5.0	56.2	3.2	5.9	27.9	158.8	510.4	676.3	14.2	4.1	87.6
201	Meat products	-	8	2	0.6	4.7	0.5	0.9	3.5	7.2	34.7	42.4	(D)	(NA)	(NA)
204	Grain mill products	E1	6	5	0.5	5.3	0.4	0.8	3.5	43.4	113.5	159.6	1.1	0.5	26.1
205	Bakery products	-	8	5	2.0	23.8	1.3	2.3	10.4	45.1	44.0	89.2	(D)	1.4	24.8
208	Beverages	-	8	7	0.6	6.4	0.2	0.3	1.3	18.0	28.8	46.9	2.8	(NA)	(NA)
22	Textile mill products	-	75	50	12.4	104.1	10.8	21.5	82.6	220.9	496.6	716.5	13.0	14.0	182.3
225	Knitting mills	-	19	12	2.8	20.4	2.3	4.3	14.9	40.3	89.5	129.7	1.2	3.0	29.2
2269	Finishing plants, n.e.c.	-	8	5	1.3	10.5	1.2	2.4	8.6	24.8	69.2	95.5	(D)	1.6	22.4
227	Floor covering mills	-	14	10	2.6	22.0	2.1	4.2	16.5	63.8	199.0	259.4	2.5	3.8	71.1
2272	Tufted carpets and rugs	-	14	10	2.6	22.0	2.1	4.2	16.5	63.8	199.0	259.4	2.5	3.8	71.1
228	Yarn and thread mills	-	18	17	4.5	39.8	4.1	8.7	34.4	75.7	104.8	179.5	6.0	3.8	42.9
2281	Yarn mills, except wool	-	12	12	3.1	27.6	2.9	6.1	24.7	57.8	77.5	134.3	4.3	(NA)	(NA)
23	Apparel and other textile products	E1	35	15	1.9	11.6	1.6	2.9	8.8	22.8	17.6	40.3	0.8	1.8	12.5
232	Men's and boys' furnishings	E3	4	4	0.8	4.1	0.7	1.2	3.2	6.5	4.6	11.0	0.1	0.8	3.9
233	Women's and misses' outerwear	-	12	4	0.4	2.3	0.4	0.6	1.8	4.9	1.1	6.2	(Z)	0.4	2.0
239	Miscellaneous fabricated textile products	-	15	4	0.4	4.1	0.4	0.9	3.1	9.8	11.5	21.1	0.6	0.4	5.5
24	Lumber and wood products	E1	54	9	0.7	6.0	0.6	1.1	4.5	12.7	17.1	29.1	1.1	0.8	10.6
25	Furniture and fixtures	E5	24	10	0.6	5.1	0.5	0.9	3.5	9.6	9.3	19.1	0.4	0.9	8.1
251	Household furniture	E3	16	8	0.4	2.5	0.3	0.5	1.7	4.4	4.9	9.3	0.1	0.6	5.3
26	Paper and allied products	-	18	12	1.1	12.5	0.9	1.7	9.4	27.5	50.4	77.6	8.3	1.2	21.9
265	Paperboard containers and boxes	-	10	6	0.4	4.8	0.3	0.6	3.2	10.9	16.4	26.9	1.1	0.6	7.9
27	Printing and publishing	-	72	15	1.4	15.6	0.8	1.4	7.9	27.7	15.9	43.5	1.7	1.4	19.3
275	Commercial printing	-	47	10	0.6	7.1	0.5	0.9	4.7	12.2	8.8	20.9	1.0	0.5	7.9
2752	Commercial printing, lithographic	-	28	9	0.5	5.8	0.4	0.7	3.7	9.9	7.3	17.1	0.7	(NA)	(NA)
28	Chemicals and allied products	-	39	19	6.2	98.6	4.3	8.3	56.7	243.4	270.4	516.8	16.4	7.7	202.1
281	Industrial inorganic chemicals	-	7	5	0.3	4.3	0.2	0.4	2.3	23.6	19.4	42.7	4.3	(NA)	(NA)
289	Miscellaneous chemical products	-	6	3	0.4	5.9	0.1	0.2	1.1	12.3	13.2	25.2	0.3	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	12	7	0.6	6.7	0.4	0.9	4.2	22.0	51.6	74.5	1.0	0.5	15.3
31	Leather and leather products	-	12	9	1.1	7.2	0.8	1.4	4.6	19.7	18.1	37.6	0.3	1.2	16.0
3199	Leather goods, n.e.c.	-	8	6	0.4	2.9	0.3	0.5	1.8	7.3	8.4	15.5	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	25	13	1.6	19.7	1.4	2.7	15.9	48.9	39.2	87.6	4.8	2.9	51.6
327	Concrete, gypsum, and plaster products	-	11	6	0.3	3.0	0.2	0.4	2.0	4.2	8.4	12.4	0.7	0.4	7.8
33	Primary metal industries	-	23	13	5.2	65.3	4.3	8.9	49.5	103.7	161.7	264.6	9.7	4.8	67.2
332	Iron and steel foundries	-	10	7	4.1	52.0	3.5	7.3	41.9	75.5	102.0	178.5	7.9	3.6	51.7
34	Fabricated metal products	-	66	28	8.1	113.3	6.3	12.2	83.3	195.4	213.6	389.0	8.1	8.7	138.5
344	Fabricated structural metal products	-	32	12	5.5	83.3	4.2	8.1	61.0	115.7	151.8	253.5	4.9	6.1	100.9
349	Miscellaneous fabricated metal products	-	14	6	1.5	18.5	1.1	2.3	13.9	44.1	31.6	70.3	1.1	1.6	28.5
35	Machinery, except electrical	-	78	25	3.5	42.1	2.5	5.2	28.4	84.3	81.7	165.5	5.2	2.5	42.1
353	Construction and related machinery	-	9	6	1.4	16.4	0.9	1.8	10.8	36.6	41.8	76.7	1.1	(NA)	(NA)
355	Special industry machinery	-	15	10	0.9	11.6	0.7	1.4	7.5	18.5	18.7	38.9	2.7	1.0	14.7
36	Electric and electronic equipment	-	17	10	2.7	29.0	2.0	3.9	17.7	73.3	56.7	127.9	3.1	1.7	24.2
363	Household appliances	-	6	5	1.4	15.6	1.1	2.1	8.7	48.5	45.4	92.8	2.7	1.3	19.0
37	Transportation equipment	E2	13	3	0.3	2.7	0.2	0.3	1.7	6.7	6.8	13.3	0.2	1.0	18.0
39	Miscellaneous manufacturing industries	-	19	5	0.4	3.3	0.3	0.6	2.4	8.0	7.2	14.2	0.4	0.5	6.5
--	Administrative and auxiliary	-	30	13	0.8	12.2	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Clarksville-Hopkinsville, Tenn.-Ky., SMSA	–	**117**	**44**	**9.4**	**89.3**	**7.1**	**13.7**	**58.3**	**233.3**	**279.8**	**513.8**	**12.9**	**10.0**	**134.7**
20	Food and kindred products	E7	13	4	0.8	9.2	0.5	1.1	5.9	13.3	57.0	71.4	1.0	(NA)	(NA)
23	Apparel and other textile products	–	9	5	1.3	8.0	1.2	2.1	6.6	11.8	8.1	19.8	0.3	(NA)	(NA)
2328	Men's and boys' work clothing	–	6	5	1.3	7.9	1.2	2.1	6.6	11.7	8.0	19.6	(D)	(NA)	(NA)
24	Lumber and wood products	–	15	5	0.5	4.2	0.4	0.8	3.3	10.0	14.4	24.3	0.6	(NA)	(NA)
242	Sawmills and planing mills	–	6	3	0.3	2.1	0.3	0.5	1.9	5.8	6.6	12.4	(D)	(NA)	(NA)
2421	Sawmills and planing mills, general	–	6	3	0.3	2.1	0.3	0.5	1.9	5.8	6.6	12.4	(D)	(NA)	(NA)
27	Printing and publishing	–	13	3	0.6	4.8	0.5	0.9	3.1	13.3	4.2	17.4	(D)	(NA)	(NA)
31	Leather and leather products	–	3	3	1.3	9.7	1.2	2.1	8.3	13.1	18.3	35.4	(D)	(NA)	(NA)
314	Footwear, except rubber	–	3	3	1.3	9.7	1.2	2.1	8.3	13.1	18.3	35.4	(D)	(NA)	(NA)
34	Fabricated metal products	–	11	7	0.5	4.7	0.4	0.8	3.1	10.5	7.5	17.6	0.8	(NA)	(NA)
	Johnson City-Kingsport-Bristol, Tenn.-Va., SMSA	–	**429**	**182**	**54.5**	**655.6**	**40.0**	**77.4**	**407.6**	**1 505.0**	**1 880.0**	**3 362.5**	**102.0**	**49.3**	**832.0**
20	Food and kindred products	–	46	19	2.8	32.2	1.7	3.7	15.8	78.4	166.7	245.1	5.1	(NA)	(NA)
205	Bakery products	–	7	6	1.0	12.6	0.6	1.3	5.1	30.0	23.7	53.7	(D)	(NA)	(NA)
2051	Bread, cake, and related products	–	7	6	1.0	12.6	0.6	1.3	5.1	30.0	23.7	53.7	(D)	(NA)	(NA)
208	Beverages	–	5	3	0.3	3.3	0.1	0.2	0.7	9.0	10.6	19.6	(D)	(NA)	(NA)
2086	Bottled and canned soft drinks	–	5	3	0.3	3.3	0.1	0 2	0.7	9.0	10.6	19.6	(D)	(NA)	(NA)
22	Textile mill products	–	12	11	3.7	34.1	3.4	6.9	29.6	63.8	105.8	165.3	(D)	(NA)	(NA)
23	Apparel and other textile products	–	32	26	4.6	27.6	4.2	7.0	22.6	61.1	41.3	100.4	1.8	(NA)	(NA)
232	Men's and boys' furnishings	–	11	9	2.2	13.6	2.0	3.4	11.1	30.7	24.0	53.3	(D)	(NA)	(NA)
233	Women's and misses' outerwear	–	10	9	1.0	5.7	0.9	1.5	4.6	16.4	8.6	24.8	(D)	(NA)	(NA)
234	Women's and children's undergarments	–	5	5	1.1	7.0	1.0	1.7	5.7	11.9	7.2	18.6	(D)	(NA)	(NA)
2341	Women's and children's underwear	–	5	5	1.1	7.0	1.0	1.7	5.7	11.9	7.2	18.6	(D)	(NA)	(NA)
24	Lumber and wood products	E1	65	9	1.1	8.0	0.9	1.7	6.1	14.8	20.6	35.4	0.8	(NA)	(NA)
242	Sawmills and planing mills	–	31	4	0.7	5.0	0.6	1.2	4.0	8.4	8.8	17.2	0.5	(NA)	(NA)
2426	Hardwood dimension and flooring	–	5	4	0.6	4.5	0.6	1.1	3.6	7.2	7.3	14.4	(D)	(NA)	(NA)
25	Furniture and fixtures	–	11	6	1.5	10.6	1.3	2.4	8.2	19.2	16.0	35.1	1.5	(NA)	(NA)
2511	Wood household furniture	–	3	3	0.8	5.1	0.7	1.4	4.1	10.8	8.7	19.4	(D)	(NA)	(NA)
27	Printing and publishing	–	60	13	4.5	48.5	3.4	6.3	33.6	97.4	62.2	161.2	2.7	(NA)	(NA)
30	Rubber and miscellaneous plastics products	–	12	6	0.8	7.9	0.7	1.3	5.3	20.1	47.0	68.2	0.8	(NA)	(NA)
3079	Miscellaneous plastics products	–	9	3	0.4	3.2	0.3	0.6	2.1	7.7	7.4	15.1	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	33	14	2.4	25.9	2.0	4.0	20.7	57.0	46.0	105.1	6.4	(NA)	(NA)
327	Concrete, gypsum, and plaster products	–	23	8	0.4	4.3	0.3	0.5	2.8	11.2	11.9	23.4	(D)	(NA)	(NA)
33	Primary metal industries	–	13	7	1.2	14.0	1.0	2.0	9.8	31.8	47.5	79.8	2.3	(NA)	(NA)
332	Iron and steel foundries	E1	5	3	0.3	3.2	0.3	0.5	2.4	4.9	3.1	8.0	0.3	(NA)	(NA)
34	Fabricated metal products	–	36	19	4.7	60.0	3.5	6.6	40.1	134.3	170.5	298.8	7.0	(NA)	(NA)
342	Cutlery, hand tools, and hardware	–	6	6	0.6	5.6	0.5	1.0	4.2	13.9	8.5	22.4	(D)	(NA)	(NA)
344	Fabricated structural metal products	–	15	5	1.4	19.3	0.9	1.6	10.9	28.4	31.2	62.5	0.9	(NA)	(NA)
35	Machinery, except electrical	–	34	12	3.4	48.1	2.7	5.5	28.4	335.5	158.1	482.9	9.1	(NA)	(NA)
356	General industrial machinery	–	3	3	0.9	10.0	0.7	1.4	7.8	32.4	31.9	65.2	1.3	(NA)	(NA)
36	Electric and electronic equipment	–	14	9	4.9	53.2	2.8	5.4	23.2	118.7	87.1	205.1	7.2	(NA)	(NA)
363	Household appliances	–	4	4	1.6	14.9	1.3	2.6	10.2	43.0	54.6	98.0	(D)	(NA)	(NA)
37	Transportation equipment	–	10	4	0.5	6.6	0.4	0.9	4.5	15.5	19.6	34.9	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	5	4	0.5	6.1	–	–	–	–	–	–	–	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Knoxville SMSA	-	546	192	39.6	475.8	29.9	57.8	319.8	1 174.8	1 487.8	2 609.6	88.1	40.9	722.3
20	Food and kindred products	-	49	28	3.8	41.0	2.4	5.1	22.5	96.3	289.2	385.5	8.6	3.9	66.5
201	Meat products	-	12	5	1.1	10.6	0.9	2.0	7.9	18.7	105.4	124.6	(D)	1.0	15.0
202	Dairy products	-	5	4	0.3	3.4	0.1	0.2	0.8	6.9	28.8	35.7	(D)	0.5	7.1
205	Bakery products	-	4	4	0.9	9.8	0.4	0.8	3.5	17.1	12.4	29.5	(D)	0.8	9.7
2051	Bread, cake, and related products	-	4	4	0.9	9.8	0.4	0.8	3.5	17.1	12.4	29.5	(D)	0.8	9.7
208	Beverages	-	9	6	0.5	5.4	0.2	0.5	2.1	16.7	34.7	51.2	(D)	0.4	7.0
2086	Bottled and canned soft drinks	-	9	6	0.5	5.4	0.2	0.5	2.1	16.7	34.7	51.2	(D)	0.4	7.0
22	Textile mill products	-	16	5	2.6	19.5	2.3	4.4	16.2	34.5	28.5	62.5	(D)	3.2	27.0
23	Apparel and other textile products	-	36	25	9.4	74.7	8.4	15.2	61.3	203.5	197.6	396.0	3.6	8.9	105.4
238	Miscellaneous apparel and accessories	E3	4	3	0.3	1.8	0.3	0.5	1.5	2.9	2.5	5.2	(D)	(NA)	(NA)
24	Lumber and wood products	-	31	8	0.6	5.3	0.5	0.9	4.1	9.7	10.4	20.0	2.0	0.5	3.5
242	Sawmills and planing mills	-	10	2	0.3	2.8	0.3	0.5	2.2	5.5	6.0	11.5	(D)	0.3	2.3
25	Furniture and fixtures	-	27	7	0.6	4.3	0.5	0.8	2.8	9.1	14.6	24.0	1.0	0.7	7.0
251	Household furniture	-	17	6	0.5	3.9	0.4	0.7	2.5	8.3	13.9	22.5	0.9	0.6	5.0
26	Paper and allied products	E1	7	3	0.3	3.3	0.2	0.4	2.5	7.6	10.8	18.3	(D)	0.5	7.4
27	Printing and publishing	E1	97	18	1.5	16.1	0.8	1.4	8.4	39.9	17.6	57.5	2.2	1.5	17.9
2711	Newspapers	-	10	5	0.7	7.8	0.3	0.5	3.3	21.7	5.6	27.3	0.8	0.9	10.4
30	Rubber and miscellaneous plastics products	-	13	9	1.1	11.4	0.9	1.8	8.1	32.6	27.4	59.1	2.2	1.6	40.9
32	Stone, clay, and glass products	-	41	14	1.2	13.7	1.0	2.0	10.0	29.5	27.9	57.6	14.1	1.6	25.6
327	Concrete, gypsum, and plaster products	E1	22	8	0.6	6.2	0.4	0.9	4.1	11.3	15.2	26.4	(D)	0.7	12.1
34	Fabricated metal products	E1	42	16	1.3	16.2	1.0	2.0	11.0	33.5	39.2	72.9	(D)	1.8	33.3
344	Fabricated structural metal products	E1	27	11	0.9	11.2	0.7	1.3	7.2	23.3	24.9	48.5	0.6	1.7	31.8
3441	Fabricated structural metal	E1	12	5	0.4	5.8	0.3	0.6	3.5	9.4	11.0	20.2	0.2	0.6	9.7
3443	Fabricated plate work (boiler shops)	E1	6	4	0.4	4.3	0.3	0.6	3.0	11.4	9.5	21.4	(D)	(NA)	(NA)
35	Machinery, except electrical	-	57	16	1.6	21.4	1.1	2.1	11.1	41.8	34.3	76.4	1.9	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	32	5	0.4	4.7	0.3	0.6	3.4	11.2	5.3	16.4	0.8	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E1	32	5	0.4	4.7	0.3	0.6	3.4	11.2	5.3	16.4	0.8	(NA)	(NA)
36	Electric and electronic equipment	E1	15	5	0.8	7.9	0.6	1.1	4.9	16.1	17.8	33.4	(D)	0.5	5.5
37	Transportation equipment	-	18	5	2.1	24.8	1.5	3.1	16.7	44.3	35.9	79.4	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	35	14	1.2	11.6	0.9	1.5	6.7	22.8	21.6	44.3	0.7	1.2	14.3
399	Miscellaneous manufactures	-	26	10	1.0	10.3	0.7	1.3	5.7	19.8	19.3	39.0	0.5	0.9	11.9
3993	Signs and advertising displays	-	13	6	0.8	8.3	0.6	1.0	4.8	16.3	15.5	32.0	0.4	0.8	10.2
	Memphis, Tenn.-Ark.-Miss., SMSA	-	1 156	458	64.1	780.1	45.4	90.3	484.9	2 159.7	3 442.9	5 608.3	161.0	64.2	1 352.4
20	Food and kindred products	-	97	67	10.5	141.2	6.6	14.5	84.6	448.7	1 409.5	1 876.2	33.6	9.9	263.8
201	Meat products	-	10	7	1.3	18.3	1.0	2.0	12.8	39.1	181.8	220.9	0.8	1.6	31.1
202	Dairy products	-	11	9	0.8	9.9	0.4	0.8	4.3	24.0	75.1	98.9	1.6	0.7	15.9
2026	Fluid milk	-	5	5	0.6	7.8	0.3	0.6	3.2	20.2	64.4	84.6	1.4	0.4	10.6
204	Grain mill products	-	16	10	1.5	24.3	1.1	2.5	18.6	135.2	175.7	307.6	8.7	1.3	54.7
2048	Prepared feeds, n.e.c.	-	9	7	0.4	4.6	0.2	0.5	2.1	12.3	64.0	76.6	2.2	(NA)	(NA)
205	Bakery products	-	14	11	1.6	22.5	1.0	2.1	13.4	53.7	36.4	90.2	1.5	2.0	34.8
207	Fats and oils	-	14	9	1.4	20.2	1.0	2.2	13.1	38.8	695.3	755.1	7.6	1.3	33.5
209	Miscellaneous foods and kindred products	-	15	8	1.1	12.4	0.7	1.4	6.7	33.2	44.5	77.7	4.3	0.8	25.4
22	Textile mill products	-	10	5	0.5	4.5	0.4	0.8	2.8	8.2	8.1	16.0	0.4	(NA)	(NA)
23	Apparel and other textile products	-	33	18	2.3	15.0	2.0	4.0	11.9	36.0	38.7	74.7	0.4	1.9	45.5
239	Miscellaneous fabricated textile products	-	21	10	1.0	7.0	0.8	1.7	5.1	14.0	23.0	37.0	0.3	(NA)	(NA)
2391	Curtains and draperies	-	5	3	0.3	1.8	0.2	0.5	1.3	2.5	1.1	3.6	(D)	0.3	1.8

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Memphis, Tenn.-Ark.-Miss., SMSA—Con.													
24	Lumber and wood products	E1	93	36	3.4	28.9	3.0	5.7	21.8	44.5	67.6	114.9	4.0	4.9	51.6
2426	Hardwood dimension and flooring	–	14	10	0.9	7.7	0.8	1.8	6.3	14.1	16.1	30.3	(D)	1.8	13.3
243	Millwork, plywood, and structural members	E3	39	15	1.6	13.3	1.4	2.5	9.6	23.0	38.3	60.5	0.6	1.8	23.7
2435	Hardwood veneer and plywood	–	7	5	0.3	2.9	0.3	0.5	1.9	4.7	15.0	19.9	0.3	0.6	12.2
249	Miscellaneous wood products	–	13	4	0.3	1.8	0.3	0.5	1.4	3.5	4.8	8.4	0.2	0.4	4.4
251	Household furniture	–	34	13	3.0	25.6	2.5	4.9	15.5	50.7	68.4	117.5	3.0	3.3	43.3
2511	Wood household furniture	–	19	4	1.6	13.4	1.4	2.7	8.4	24.9	28.6	53.2	1.5	1.7	20.5
2515	Mattresses and bedsprings	–	6	3	0.5	5.1	0.3	0.6	2.1	13.0	16.4	28.9	(D)	(NA)	(NA)
264	Miscellaneous converted paper products	–	16	13	3.2	36.5	2.3	4.7	24.0	126.0	155.9	280.4	6.7	3.1	89.3
2641	Paper coating and glazing	–	5	5	0.5	4.9	0.5	0.9	3.2	16.9	33.0	49.5	(D)	0.4	7.1
265	Paperboard containers and boxes	–	15	13	1.5	19.3	1.1	2.5	13.3	41.0	63.3	104.1	(D)	(NA)	(NA)
2653	Corrugated and solid fiber boxes	–	10	8	0.9	12.2	0.6	1.4	7.7	25.3	48.9	73.7	2.0	(NA)	(NA)
27	Printing and publishing	–	172	27	3.7	44.4	2.2	4.1	25.2	94.2	56.9	150.6	10.0	3.2	56.9
2751	Commercial printing, letterpress	E6	58	4	0.3	3.2	0.3	0.5	2.3	7.1	3.5	10.5	0.4	(NA)	(NA)
2752	Commercial printing, lithographic	–	40	8	0.9	10.4	0.7	1.3	6.4	16.0	22.5	37.9	1.1	0.8	11.2
278	Blankbooks and bookbinding	–	7	4	0.4	3.6	0.3	0.6	2.7	7.5	4.3	11.8	0.3	(NA)	(NA)
28	Chemicals and allied products	–	82	36	5.7	78.1	3.3	7.0	40.2	404.2	397.5	801.1	34.2	5.4	229.8
284	Soaps, cleaners, and toilet goods	–	23	10	1.0	11.1	0.6	1.1	5.2	86.9	47.0	133.5	1.6	1.0	40.7
2844	Toilet preparations	–	7	5	0.6	6.4	0.4	0.8	3.6	68.9	16.3	84.7	0.7	0.6	29.9
2851	Paints and allied products	E2	11	6	0.4	5.5	0.2	0.5	2.2	12.2	29.2	41.3	(D)	(NA)	(NA)
286	Industrial organic chemicals	–	5	5	0.8	12.1	0.5	1.1	6.9	74.1	42.4	115.4	7.0	0.8	27.9
2879	Agricultural chemicals, n.e.c.	–	5	4	0.4	3.2	0.3	0.5	1.7	11.5	8.0	19.5	(D)	(NA)	(NA)
289	Miscellaneous chemical products	–	19	4	0.4	6.3	0.3	0.6	3.2	20.9	59.9	81.0	(D)	0.4	17.2
29	Petroleum and coal products	–	18	6	0.7	9.9	0.5	1.0	6.3	95.3	247.5	339.9	3.5	0.8	13.1
30	Rubber and miscellaneous plastics products	–	33	13	3.9	58.4	3.3	6.4	46.9	123.1	113.3	225.9	8.4	(NA)	(NA)
32	Stone, clay, and glass products	E1	59	23	1.5	16.6	1.1	2.2	11.2	38.1	41.0	78.2	6.4	1.5	27.1
327	Concrete, gypsum, and plaster products	E1	38	18	0.9	10.0	0.6	1.2	5.9	22.8	27.0	49.9	3.3	1.1	20.4
3272	Concrete products, n.e.c.	E3	16	8	0.3	3.4	0.2	0.5	2.2	7.6	5.8	13.3	(D)	0.5	6.3
3273	Ready-mixed concrete	E1	19	8	0.4	4.6	0.2	0.4	2.2	9.0	12.6	21.5	1.0	0.5	11.2
33	Primary metal industries	–	21	12	1.3	15.7	1.1	2.2	12.2	28.3	91.4	119.8	5.0	1.2	21.9
332	Iron and steel foundries	–	7	5	0.5	5.1	0.4	0.8	4.2	8.5	7.6	15.7	0.7	0.4	4.7
34	Fabricated metal products	–	143	60	5.5	67.2	4.2	8.2	44.6	152.3	202.2	360.1	11.4	4.9	72.9
341	Metal cans and shipping containers	–	8	3	0.3	6.0	0.3	0.6	4.3	17.1	37.4	54.0	0.5	0.4	10.8
344	Fabricated structural metal products	–	75	31	3.2	40.5	2.3	4.4	24.7	87.1	99.7	194.3	4.9	2.5	37.2
3441	Fabricated structural metal	–	17	7	0.7	9.4	0.6	1.2	6.6	19.8	30.8	50.4	1.2	0.5	8.3
3442	Metal doors, sash, and trim	E1	14	8	0.6	5.2	0.4	0.7	2.6	8.7	14.1	22.4	0.3	0.3	3.4
3443	Fabricated plate work (boiler shops)	–	14	8	1.3	18.4	0.9	1.6	10.7	46.2	35.0	88.6	1.9	0.9	15.7
3444	Sheet metal work	–	16	6	0.4	5.9	0.3	0.7	3.7	9.5	12.3	21.7	0.8	0.3	5.1
346	Metal forgings and stampings	–	12	10	0.9	9.4	0.8	1.6	7.5	25.8	46.3	71.3	2.5	0.4	6.3
347	Metal services, n.e.c.	–	16	7	0.5	4.8	0.4	0.7	3.7	7.0	3.7	10.7	0.4	0.4	3.9
3471	Plating and polishing	–	10	5	0.4	4.0	0.3	0.6	3.1	5.9	2.7	8.6	0.3	0.3	3.6
349	Miscellaneous fabricated metal products	–	23	4	0.4	3.8	0.3	0.5	2.6	9.2	11.0	19.8	2.9	0.5	8.0
35	Machinery, except electrical	–	109	28	5.7	84.6	4.1	7.8	56.4	186.9	183.3	372.5	12.3	6.3	110.7
353	Construction and related machinery	E1	11	7	0.8	10.2	0.4	0.8	4.4	14.8	18.5	32.8	(D)	(NA)	(NA)
356	General industrial machinery	–	16	4	0.7	7.8	0.4	0.7	4.5	20.0	12.5	32.4	2.0	0.8	9.6
359	Miscellaneous machinery, except electrical	E2	40	8	0.4	5.1	0.3	0.7	3.5	9.1	4.6	13.5	0.5	0.4	5.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Memphis, Tenn.-Ark.-Miss., SMSA—Con.														
36	Electric and electronic equipment	-	41	15	2.6	30.0	2.2	3.9	19.6	86.9	68.2	155.4	3.6	3.9	80.1
364	Electric lighting and wiring equipment	-	12	6	1.4	17.4	1.2	2.3	12.6	48.9	36.2	86.1	2.7	1.8	41.3
369	Miscellaneous electrical equipment and supplies	-	10	5	0.4	5.4	0.3	0.7	4.3	15.7	16.8	31.0	0.3	(NA)	(NA)
3714	Motor vehicle parts and accessories	E1	15	5	0.7	6.4	0.6	1.1	4.9	15.0	13.5	26.6	0.7	(NA)	(NA)
38	Instruments and related products	-	14	5	0.7	8.0	0.5	0.8	4.3	29.8	11.6	38.5	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	58	18	2.0	16.4	1.5	2.9	11.3	34.7	34.1	68.0	1.5	1.8	17.9
399	Miscellaneous manufactures	E1	37	11	0.6	5.6	0.4	0.8	3.1	14.5	11.1	25.2	1.3	(NA)	(NA)
--	Administrative and auxiliary	-	48	23	2.0	31.1	-	-	-	-	-	-	-	(NA)	(NA)
	Nashville-Davidson SMSA	-	**1 354**	**460**	**80.5**	**914.7**	**55.7**	**107.5**	**554.5**	**1 935.3**	**2 436.0**	**4 342.9**	**156.5**	**72.0**	**1 149.7**
20	Food and kindred products	-	100	52	6.4	79.6	3.8	7.4	40.2	231.4	524.2	757.6	10.3	5.9	95.0
201	Meat products	-	25	10	2.3	32.4	1.8	3.5	22.4	113.3	290.8	406.6	3.9	2.0	34.3
202	Dairy products	-	13	9	0.9	12.1	0.4	0.9	4.9	31.6	76.6	108.1	2.1	1.0	20.5
2026	Fluid milk	-	5	3	0.6	8.8	0.2	0.5	2.8	22.0	42.3	64.3	(D)	0.6	12.4
203	Preserved fruits and vegetables	-	10	6	0.3	3.7	0.2	0.5	1.7	8.4	16.9	25.3	0.4	(NA)	(NA)
204	Grain mill products	-	13	7	0.4	4.3	0.3	0.6	2.9	16.2	78.4	94.5	1.3	0.6	11.6
205	Bakery products	-	9	4	1.0	13.4	0.3	0.6	3.6	26.7	22.6	49.2	1.1	0.9	8.8
2051	Bread, cake, and related products	-	9	4	1.0	13.4	0.3	0.6	3.6	26.7	22.6	49.2	1.1	0.9	8.8
208	Beverages	E2	9	8	0.7	8.0	0.2	0.5	1.6	23.9	19.7	43.2	(D)	0.7	10.9
2086	Bottled and canned soft drinks	E2	9	8	0.7	8.0	0.2	0.5	1.6	23.9	19.7	43.2	(D)	0.7	10.9
209	Miscellaneous foods and kindred products	-	14	4	0.4	3.0	0.2	0.4	1.1	5.4	8.4	13.8	0.2	0.3	4.4
22	Textile mill products	-	13	5	2.0	20.0	1.6	3.5	13.9	27.4	52.7	79.7	(D)	2.6	31.1
23	Apparel and other textile products	-	44	25	5.2	31.8	4.2	7.4	22.8	92.4	144.9	239.5	2.3	5.2	61.5
232	Men's and boys' furnishings	-	10	8	2.5	15.7	1.9	3.3	10.9	53.8	106.6	160.1	(D)	2.5	30.5
24	Lumber and wood products	-	110	20	1.8	15.8	1.5	2.8	10.9	37.2	51.6	87.8	2.3	1.5	15.5
242	Sawmills and planing mills	E1	45	5	0.8	6.3	0.7	1.4	5.2	16.6	19.4	35.7	0.7	0.5	3.9
243	Millwork, plywood, and structural members	-	34	9	0.7	6.5	0.5	0.9	3.5	13.9	20.9	34.3	0.9	0.6	7.4
2431	Millwork	-	13	5	0.3	3.4	0.2	0.4	1.4	8.1	15.3	22.9	0.5	(NA)	(NA)
25	Furniture and fixtures	E1	46	19	3.7	35.2	3.0	5.7	23.5	81.5	59.9	138.5	3.0	4.2	52.3
251	Household furniture	E1	31	12	3.0	27.7	2.4	4.6	18.3	54.9	43.4	95.8	2.4	3.1	35.0
2511	Wood household furniture	E4	17	4	1.1	9.2	1.0	1.9	6.9	13.7	8.8	22.0	(D)	0.6	9.7
26	Paper and allied products	-	29	17	2.3	25.1	1.8	3.6	17.2	58.0	74.3	132.4	5.2	2.4	35.9
264	Miscellaneous converted paper products	-	16	9	1.8	18.4	1.4	2.8	12.8	43.5	47.0	90.8	4.0	1.7	27.1
2643	Bags, except textile bags	-	6	5	0.7	7.7	0.6	1.2	5.6	17.1	26.9	44.5	(D)	0.7	9.3
2653	Corrugated and solid fiber boxes	-	9	6	0.5	5.8	0.4	0.7	3.7	11.9	23.8	35.6	0.8	0.5	6.8
27	Printing and publishing	-	285	58	10.4	110.1	5.1	9.6	52.5	199.8	138.1	336.5	28.4	7.2	114.2
2721	Periodicals	-	17	7	1.8	19.3	0.2	0.4	1.6	30.5	18.2	48.8	2.3	1.7	23.9
275	Commercial printing	-	131	23	3.5	41.7	2.7	5.1	30.5	67.1	57.7	124.6	17.7	2.3	35.9
2752	Commercial printing, lithographic	-	50	15	2.5	30.5	2.0	3.6	22.6	45.5	36.4	81.9	(D)	0.9	13.3
279	Printing trade services	E1	27	7	0.6	7.4	0.5	0.9	5.2	11.8	3.0	14.7	0.9	0.6	9.3
28	Chemicals and allied products	-	48	15	4.6	75.1	3.2	6.2	44.1	181.1	219.7	403.6	(D)	4.4	149.7
289	Miscellaneous chemical products	-	17	4	0.3	3.1	0.2	0.5	2.0	11.9	17.5	29.1	1.0	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	38	17	3.7	47.5	2.8	5.6	32.9	91.3	137.4	221.8	11.2	2.2	33.3
31	Leather and leather products	-	18	12	3.9	32.1	3.3	6.3	21.5	84.4	61.5	137.3	2.1	4.0	45.5
314	Footwear, except rubber	-	7	7	3.0	22.7	2.8	5.4	18.4	62.5	47.8	102.5	0.8	(NA)	(NA)
3143	Men's footwear, except athletic	-	7	7	3.0	22.7	2.8	5.4	18.4	62.5	47.8	102.5	0.8	(NA)	(NA)
32	Stone, clay, and glass products	-	60	23	5.2	94.7	4.4	9.2	72.4	189.5	163.2	348.8	26.2	5.2	148.0
3272	Concrete products, n.e.c.	-	17	6	0.5	5.0	0.4	0.6	2.9	9.2	9.6	18.6	0.9	(NA)	(NA)
3273	Ready-mixed concrete	-	14	7	0.4	3.6	0.3	0.5	2.4	11.2	13.6	24.6	2.3	0.3	4.9
329	Miscellaneous nonmetallic mineral products	-	9	2	0.9	8.1	0.7	1.3	3.9	15.0	6.6	21.8	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Nashville-Davidson SMSA—Con.														
33	Primary metal industries	-	22	11	0.8	9.2	0.7	1.4	6.4	20.2	41.8	61.6	1.5	0.7	12.3
332	Iron and steel foundries	-	5	3	0.3	3.1	0.3	0.5	2.3	5.6	3.4	8.9	(D)	0.4	3.8
34	Fabricated metal products	-	125	53	6.3	66.2	4.7	9.1	41.6	140.8	170.7	306.5	9.5	5.3	80.4
344	Fabricated structural metal products	-	64	26	2.4	26.3	1.8	3.2	15.9	57.2	94.2	147.8	2.3	1.8	21.8
3441	Fabricated structural metal	-	22	7	0.7	7.4	0.5	0.9	4.5	17.6	24.4	39.4	0.8	0.4	4.3
3442	Metal doors, sash, and trim	-	8	4	0.8	7.2	0.5	1.0	4.3	15.0	19.7	34.8	(D)	0.5	3.8
3446	Architectural metal work	-	10	4	0.4	4.3	0.3	0.5	2.3	8.9	11.2	19.9	0.5	0.4	5.2
349	Miscellaneous fabricated metal products	-	23	15	1.4	11.0	1.1	2.2	7.9	21.4	24.5	44.6	1.1	0.7	8.7
3496	Miscellaneous fabricated wire products	-	10	8	0.8	5.7	0.6	1.2	3.9	12.5	14.4	25.7	(D)	0.5	6.6
35	Machinery, except electrical	E1	142	39	2.6	32.6	2.0	4.0	22.6	58.2	45.1	100.7	3.8	2.7	36.8
354	Metalworking machinery	E1	56	17	1.0	13.2	0.8	1.7	9.6	22.5	16.4	38.2	2.2	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures	-	44	13	0.7	9.3	0.6	1.2	7.2	13.1	6.5	19.2	1.8	(NA)	(NA)
355	Special industry machinery	-	10	4	0.3	3.9	0.2	0.4	2.3	5.4	4.3	9.6	0.2	0.3	6.1
3599	Machinery, except electrical, n.e.c.	E1	44	5	0.6	8.0	0.5	0.9	5.9	12.6	6.8	18.7	1.0	0.5	8.1
36	Electric and electronic equipment	-	94	25	6.8	66.6	5.3	10.3	45.0	170.7	183.0	361.0	11.8	5.2	78.8
363	Household appliances	-	11	10	3.7	33.3	2.8	5.6	22.6	81.0	109.3	197.6	5.5	2.7	42.0
37	Transportation equipment	-	56	27	7.9	100.3	6.1	11.3	72.1	225.8	312.6	528.2	12.3	7.6	117.9
3714	Motor vehicle parts and accessories	-	12	4	2.4	29.9	2.0	4.0	24.3	74.7	63.9	136.5	5.0	(NA)	(NA)
38	Instruments and related products	-	16	3	0.9	7.3	0.8	1.5	5.5	13.2	12.2	25.9	0.3	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	62	8	1.2	9.4	0.9	1.7	5.4	16.1	15.0	31.2	0.3	1.2	15.0
399	Miscellaneous manufactures	-	47	7	1.0	8.0	0.7	1.4	4.4	13.7	12.4	26.3	0.3	1.1	12.7
3993	Signs and advertising displays	-	33	5	0.7	5.8	0.5	1.0	3.0	10.4	9.0	19.6	0.2	0.7	9.5
--	Administrative and auxiliary	-	35	26	4.1	50.4	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Bedford County	-	**56**	**31**	**4.7**	**41.8**	**4.0**	**7.7**	**32.4**	**124.2**	**157.6**	**276.7**	**3.9**	**4.2**	**74.1**
39	Miscellaneous manufacturing industries	-	12	7	1.3	10.7	1.0	2.1	7.4	20.6	31.4	51.1	(D)	1.3	13.4
3952	Lead pencils and art goods	-	5	4	0.8	6.7	0.6	1.3	4.5	8.7	20.9	29.1	(D)	(NA)	(NA)
	Benton County	-	**20**	**5**	**0.9**	**8.2**	**0.8**	**1.5**	**6.1**	**18.4**	**18.4**	**36.9**	**(D)**	**0.8**	**8.1**
	Bradley County	-	**132**	**52**	**11.7**	**107.1**	**9.4**	**17.3**	**73.1**	**277.4**	**321.0**	**591.0**	**22.9**	**12.1**	**174.9**
22	Textile mill products	E2	9	6	0.8	6.1	0.7	1.4	4.6	12.1	15.5	27.6	(D)	2.1	23.9
23	Apparel and other textile products	-	9	7	2.4	16.8	1.9	2.8	11.0	26.0	37.3	60.5	0.6	2.4	20.8
25	Furniture and fixtures	E1	25	9	1.8	12.7	1.6	3.0	9.9	23.4	27.3	50.3	1.1	2.0	20.3
2512	Upholstered household furniture	-	15	9	1.8	12.4	1.6	2.9	9.7	22.9	26.8	49.4	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	4	4	3.7	40.1	3.0	5.8	27.1	87.2	137.7	223.0	9.2	3.2	62.2
	Campbell County	-	**38**	**15**	**2.1**	**14.9**	**1.8**	**3.3**	**11.3**	**29.9**	**36.0**	**65.5**	**1.6**	**2.4**	**19.6**
23	Apparel and other textile products	-	5	4	1.3	6.7	1.1	1.9	5.2	8.8	9.5	17.9	(D)	(NA)	(NA)
	Carroll County	-	**36**	**12**	**3.0**	**19.6**	**2.6**	**4.6**	**16.7**	**46.4**	**50.6**	**95.1**	**1.7**	**2.6**	**27.4**
23	Apparel and other textile products	E4	7	5	1.8	11.3	1.7	3.0	10.5	24.0	11.7	35.1	0.7	(NA)	(NA)
	Carter County	-	**35**	**16**	**3.5**	**31.8**	**2.9**	**5.5**	**24.2**	**58.7**	**55.2**	**112.4**	**3.7**	**4.0**	**40.2**
	Cheatham County	-	**25**	**7**	**2.0**	**21.0**	**1.6**	**3.4**	**15.2**	**59.3**	**73.1**	**130.1**	**2.2**	**1.9**	**35.1**
	Chester County	-	**10**	**5**	**1.0**	**7.1**	**0.9**	**1.6**	**6.1**	**17.5**	**19.7**	**35.4**	**1.5**	**0.9**	**8.8**
	Claiborne County	-	**28**	**10**	**2.0**	**12.7**	**1.8**	**3.3**	**11.1**	**25.8**	**57.9**	**85.8**	**1.1**	**1.4**	**12.9**
	Clay County	-	**9**	**5**	**0.5**	**3.0**	**0.5**	**0.9**	**2.6**	**9.5**	**6.6**	**16.1**	**0.1**	**(D)**	**(D)**
	Cocke County	-	**33**	**18**	**3.3**	**32.8**	**2.8**	**5.5**	**25.8**	**88.4**	**137.9**	**223.7**	**4.1**	**3.4**	**49.4**
25	Furniture and fixtures	-	6	4	0.5	4.3	0.4	0.7	3.4	9.1	9.7	17.7	0.1	0.7	8.8
	Coffee County	-	**71**	**31**	**4.5**	**38.5**	**3.7**	**7.1**	**28.2**	**84.6**	**77.6**	**164.0**	**6.1**	**4.3**	**48.1**
23	Apparel and other textile products	-	11	6	1.3	8.1	1.2	2.1	6.8	9.5	9.9	19.4	0.3	1.3	7.0
31	Leather and leather products	-	3	3	0.7	4.6	0.5	1.0	3.2	10.0	11.4	21.6	(D)	(NA)	(NA)
	Crockett County	-	**15**	**6**	**1.8**	**13.4**	**1.5**	**2.6**	**9.9**	**42.0**	**49.1**	**92.4**	**(D)**	**(D)**	**(D)**
	Cumberland County	-	**55**	**14**	**2.0**	**17.5**	**1.7**	**2.9**	**12.7**	**35.9**	**34.5**	**70.8**	**3.6**	**2.2**	**33.7**
	Davidson County	-	**865**	**293**	**50.1**	**617.3**	**32.3**	**62.5**	**355.9**	**1 237.6**	**1 662.5**	**2 886.6**	**99.7**	**45.9**	**792.4**
20	Food and kindred products	-	65	39	5.3	68.6	3.1	6.2	34.6	200.6	451.9	655.0	8.3	4.9	76.3
202	Dairy products	-	7	6	0.8	10.7	0.3	0.7	4.0	26.6	59.2	86.2	1.9	0.8	15.3
24	Lumber and wood products	-	42	13	1.2	10.3	0.9	1.8	6.8	23.0	31.4	53.7	0.8	1.0	10.4
243	Millwork, plywood, and structural members	-	24	8	0.6	5.6	0.4	0.7	2.9	11.0	16.4	27.1	(D)	0.6	7.1
25	Furniture and fixtures	E4	22	6	0.9	7.2	0.8	1.5	5.0	12.1	11.7	23.5	0.6	0.6	11.4
251	Household furniture	E6	15	4	0.7	5.5	0.6	1.2	3.8	9.0	8.9	17.7	(D)	(NA)	(NA)
26	Paper and allied products	-	11	6	0.7	8.2	0.6	1.1	5.4	16.5	23.5	39.8	1.1	0.9	12.2
27	Printing and publishing	-	229	49	9.4	97.5	4.6	8.5	47.2	171.0	115.9	285.2	(D)	6.9	109.9
273	Books	-	16	7	0.8	9.2	0.3	0.7	3.2	24.6	28.2	51.0	5.2	(NA)	(NA)
275	Commercial printing	-	106	20	3.0	35.5	2.3	4.2	26.2	54.7	43.2	98.1	(D)	2.3	35.4
279	Printing trade services	E1	27	7	0.6	7.4	0.5	0.9	5.2	11.8	3.0	14.7	0.9	(NA)	(NA)
28	Chemicals and allied products	-	43	14	4.6	74.5	3.2	6.1	43.7	178.0	213.2	394.7	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	19	9	1.8	24.5	1.3	2.8	16.4	44.4	57.5	100.2	5.0	(NA)	(NA)
32	Stone, clay, and glass products	-	35	14	4.0	83.5	3.4	7.4	66.2	168.0	147.2	311.3	23.9	3.9	133.9
34	Fabricated metal products	-	78	37	4.1	45.7	3.1	6.1	28.0	96.2	112.8	204.3	7.7	3.6	57.8
344	Fabricated structural metal products	-	35	17	1.1	12.0	0.8	1.4	7.0	23.5	50.4	72.1	1.2	1.1	14.9
349	Miscellaneous fabricated metal products	-	15	10	0.8	7.4	0.7	1.4	5.0	15.1	15.9	30.1	(D)	(NA)	(NA)
35	Machinery, except electrical	E1	78	26	1.7	22.9	1.4	2.8	16.2	36.5	24.4	59.3	2.5	1.6	23.5
354	Metalworking machinery	-	24	10	0.5	7.4	0.4	0.9	5.6	10.6	5.0	15.2	1.3	0.5	6.4
36	Electric and electronic equipment	-	69	13	1.8	16.5	1.5	2.6	10.3	39.5	38.9	82.7	3.3	1.5	17.0
369	Miscellaneous electrical equipment and supplies	E1	6	3	0.7	5.3	0.7	1.2	4.1	7.5	7.9	16.1	(D)	(NA)	(NA)
37	Transportation equipment	-	27	12	4.6	61.5	3.4	5.9	41.3	130.1	221.9	345.6	6.8	4.7	68.7
--	Administrative and auxiliary	-	30	22	3.6	44.6	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers							All employees	
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	(1,000)	Value added by manufacture (million dollars)
	Decatur County	–	**26**	**10**	**2.1**	**13.0**	**1.8**	**3.3**	**10.6**	**19.9**	**10.3**	**30.0**	**0.8**	**2.0**	**12.8**
23	Apparel and other textile products	–	4	4	1.6	9.3	1.4	2.6	7.9	11.4	2.5	14.1	(D)	1.7	8.6
	De Kalb County	–	**19**	**9**	**1.8**	**10.9**	**1.7**	**3.1**	**9.5**	**21.6**	**13.6**	**34.3**	**0.8**	**1.8**	**13.6**
	Dickson County	–	**50**	**15**	**3.0**	**24.6**	**2.5**	**4.5**	**18.8**	**62.6**	**40.6**	**103.6**	**2.6**	**2.6**	**33.2**
	Dyer County	–	**46**	**13**	**4.6**	**48.6**	**3.9**	**8.0**	**36.5**	**109.4**	**123.8**	**231.9**	**9.8**	**4.2**	**71.9**
34	Fabricated metal products	–	6	3	0.9	8.0	0.8	1.5	6.6	13.4	18.4	30.4	1.7	(NA)	(NA)
	Fayette County	–	**18**	**7**	**1.5**	**12.1**	**1.3**	**2.6**	**9.6**	**17.7**	**32.2**	**51.5**	**5.7**	**1.5**	**15.6**
	Fentress County	–	**34**	**6**	**1.2**	**6.9**	**1.1**	**2.0**	**6.1**	**17.9**	**27.4**	**43.1**	**0.4**	**1.4**	**7.9**
	Franklin County	–	**36**	**11**	**2.1**	**16.9**	**1.9**	**3.5**	**14.2**	**28.3**	**59.8**	**90.0**	**1.2**	**1.3**	**22.1**
23	Apparel and other textile products	–	6	4	0.8	5.3	0.7	1.4	4.8	9.7	3.5	13.3	(D)	(NA)	(NA)
	Gibson County	–	**60**	**32**	**8.0**	**76.9**	**6.2**	**11.7**	**52.8**	**152.6**	**157.1**	**303.4**	**11.0**	**9.5**	**111.6**
22	Textile mill products	–	5	4	0.6	4.8	0.5	1.0	4.2	9.9	12.9	22.8	(D)	1.0	9.4
23	Apparel and other textile products	–	6	5	1.5	9.2	1.2	2.0	6.9	16.2	11.0	27.2	(D)	(NA)	(NA)
34	Fabricated metal products	–	9	4	1.6	17.9	1.3	2.5	13.9	45.9	17.2	62.9	2.3	(NA)	(NA)
	Giles County	–	**35**	**19**	**3.7**	**30.5**	**3.3**	**6.2**	**24.8**	**110.6**	**83.9**	**196.7**	**5.3**	**3.7**	**65.3**
23	Apparel and other textile products	E3	7	6	0.6	3.2	0.5	1.0	2.7	4.9	2.1	7.1	(Z)	(NA)	(NA)
	Grainger County	–	**23**	**7**	**0.7**	**5.6**	**0.6**	**1.1**	**4.0**	**13.4**	**18.4**	**31.2**	**0.5**	**0.6**	**7.5**
	Greene County	–	**74**	**35**	**7.5**	**72.7**	**5.6**	**10.7**	**45.6**	**198.9**	**338.9**	**522.2**	**8.2**	**8.1**	**234.4**
	Grundy County	–	**20**	**5**	**0.5**	**2.4**	**0.5**	**0.7**	**2.0**	**3.5**	**2.7**	**6.3**	**0.2**	**0.6**	**3.2**
	Hamblen County	–	**108**	**45**	**13.0**	**127.8**	**10.3**	**19.5**	**87.8**	**272.4**	**333.7**	**595.2**	**21.5**	**13.1**	**182.1**
20	Food and kindred products	–	6	3	0.5	3.7	0.3	0.6	2.0	8.0	19.9	27.7	0.5	(NA)	(NA)
24	Lumber and wood products	E1	16	10	0.7	5.2	0.5	0.9	3.8	12.8	17.1	29.4	1.4	(NA)	(NA)
25	Furniture and fixtures	–	28	11	4.6	41.6	3.9	7.2	29.4	77.9	68.7	146.4	3.6	5.8	61.8
30	Rubber and miscellaneous plastics products	–	5	4	0.6	5.0	0.4	0.9	3.2	12.9	18.4	31.0	(D)	(NA)	(NA)
35	Machinery, except electrical	–	11	3	0.5	6.4	0.4	0.8	4.2	13.0	7.6	21.0	0.1	0.5	6.6
	Hamilton County	–	**506**	**215**	**41.3**	**502.9**	**30.8**	**59.7**	**328.4**	**1 045.5**	**1 601.8**	**2 633.2**	**74.9**	**44.6**	**768.0**
204	Grain mill products	E1	6	5	0.5	5.3	0.4	0.8	3.5	43.4	113.5	159.6	1.1	0.5	26.1
205	Bakery products	–	8	5	2.0	23.8	1.3	2.3	10.4	45.1	44.0	89.2	(D)	1.4	24.8
2086	Bottled and canned soft drinks	–	6	5	0.5	5.6	0.1	0.2	1.2	15.1	25.6	40.7	(D)	(NA)	(NA)
22	Textile mill products	–	30	17	4.1	31.6	3.6	6.9	25.0	71.8	160.5	233.2	(D)	5.0	58.9
23	Apparel and other textile products	E2	18	5	0.5	3.4	0.4	0.8	2.5	6.9	8.1	14.8	0.3	0.7	4.8
24	Lumber and wood products	–	30	6	0.5	4.4	0.4	0.8	3.2	10.2	13.7	23.3	0.9	0.6	8.5
27	Printing and publishing	–	65	15	1.4	15.3	0.8	1.4	7.7	27.0	15.5	42.4	1.6	1.4	18.8
2752	Commercial printing, lithographic	–	28	9	0.5	5.8	0.4	0.7	3.7	9.9	7.3	17.1	0.7	(NA)	(NA)
28	Chemicals and allied products	–	35	17	6.0	96.3	4.2	8.0	55.2	233.7	247.4	483.6	15.8	7.7	201.7
31	Leather and leather products	–	12	9	1.1	7.2	0.8	1.4	4.6	19.7	18.1	37.6	(D)	1.2	15.9
32	Stone, clay, and glass products	–	21	11	1.4	17.6	1.2	2.5	14.3	44.6	34.5	77.9	4.4	2.8	49.0
3321	Gray iron foundries	–	6	5	3.4	43.7	2.9	6.1	35.4	63.7	92.9	156.8	7.3	(NA)	(NA)
--	Administrative and auxiliary	–	18	10	0.6	9.4	–	–	–	–	–	–	–	(NA)	(NA)
	Hardeman County	–	**46**	**11**	**1.4**	**12.4**	**1.2**	**2.3**	**9.5**	**26.5**	**42.8**	**71.3**	**1.9**	**2.5**	**33.8**
	Hardin County	–	**48**	**14**	**3.2**	**26.5**	**2.7**	**4.9**	**19.2**	**76.0**	**96.9**	**169.3**	**(D)**	**2.2**	**32.0**
23	Apparel and other textile products	–	5	4	1.4	7.6	1.3	2.3	6.0	14.5	7.5	20.9	0.1	0.8	5.7
	Hawkins County	–	**20**	**8**	**3.8**	**50.0**	**3.0**	**6.0**	**36.6**	**104.9**	**105.0**	**213.3**	**8.1**	**4.3**	**64.9**
	Haywood County	–	**24**	**10**	**1.2**	**9.9**	**1.0**	**1.9**	**7.1**	**20.4**	**25.4**	**46.6**	**1.0**	**1.5**	**23.3**

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Henderson County	-	**35**	**16**	**3.0**	**24.3**	**2.7**	**5.1**	**21.3**	**66.1**	**52.0**	**115.4**	**3.2**	**2.5**	**33.2**
	Henry County	-	**41**	**17**	**4.2**	**40.1**	**3.5**	**6.8**	**31.3**	**109.1**	**125.0**	**231.7**	**6.5**	**3.6**	**49.4**
	Hickman County	-	**20**	**10**	**1.3**	**9.8**	**1.2**	**2.4**	**8.3**	**33.8**	**25.7**	**58.6**	**2.2**	**1.3**	**16.2**
	Humphreys County	-	**18**	**10**	**2.7**	**40.4**	**2.1**	**4.0**	**28.1**	**157.3**	**204.5**	**365.7**	**14.9**	**2.0**	**71.6**
	Knox County	-	**396**	**147**	**25.4**	**254.7**	**19.7**	**37.4**	**172.4**	**553.1**	**760.5**	**1 306.4**	**42.1**	**26.3**	**355.9**
205	Bakery products	-	4	4	0.9	9.8	0.4	0.8	3.5	17.1	12.4	29.5	(D)	0.8	9.7
2051	Bread, cake, and related products	-	4	4	0.9	9.8	0.4	0.8	3.5	17.1	12.4	29.5	(D)	(NA)	(NA)
232	Men's and boys' furnishings	-	10	8	3.6	24.0	3.3	6.1	20.9	80.5	81.9	160.2	(D)	4.0	41.9
27	Printing and publishing	-	76	14	1.2	14.0	0.7	1.2	7.4	35.6	16.0	51.5	1.9	1.2	14.5
32	Stone, clay, and glass products	-	26	12	1.1	12.3	0.9	1.8	9.1	25.0	23.1	48.3	(D)	1.5	24.3
327	Concrete, gypsum, and plaster products	-	15	7	0.5	5.4	0.3	0.8	3.5	8.6	11.9	20.4	1.0	0.6	11.2
34	Fabricated metal products	E1	32	13	1.1	13.6	0.9	1.6	9.1	26.1	31.7	57.5	1.0	1.6	26.0
344	Fabricated structural metal products	E1	22	10	0.8	9.6	0.6	1.1	6.0	18.3	19.3	37.4	0.4	1.5	25.2
35	Machinery, except electrical	-	33	8	0.9	12.2	0.5	0.9	4.9	21.5	22.9	45.2	(D)	0.7	9.6
3993	Signs and advertising displays	-	13	6	0.8	8.3	0.6	1.0	4.8	16.3	15.5	32.0	0.4	(NA)	(NA)
	Lake County	-	**10**	**6**	**0.6**	**3.6**	**0.5**	**0.9**	**2.7**	**12.2**	**27.1**	**38.7**	**0.3**	**0.6**	**5.8**
	Lauderdale County	-	**35**	**17**	**3.8**	**29.6**	**3.4**	**7.0**	**26.3**	**91.7**	**66.1**	**156.9**	**3.4**	**2.3**	**63.9**
23	Apparel and other textile products	-	8	5	0.6	4.5	0.6	1.1	4.1	6.2	5.4	11.5	0.5	(NA)	(NA)
	Lawrence County	-	**53**	**17**	**5.3**	**49.4**	**4.8**	**8.8**	**41.6**	**120.0**	**171.5**	**274.4**	**8.5**	**4.7**	**76.8**
	Lewis County	-	**24**	**6**	**1.2**	**12.4**	**1.1**	**2.0**	**10.6**	**21.5**	**19.7**	**40.9**	**1.3**	**1.3**	**18.1**
	Lincoln County	-	**35**	**12**	**3.3**	**23.0**	**2.9**	**5.3**	**18.9**	**61.9**	**102.0**	**162.8**	**(D)**	**2.8**	**35.3**
23	Apparel and other textile products	-	4	3	1.2	5.7	1.1	1.7	5.2	7.5	0.5	8.0	0.1	1.4	9.8
	Loudon County	-	**28**	**13**	**3.4**	**32.7**	**2.9**	**5.6**	**25.0**	**101.0**	**62.1**	**162.9**	**3.4**	**3.6**	**55.6**
	McMinn County	-	**87**	**43**	**8.5**	**85.8**	**6.5**	**12.7**	**56.5**	**201.1**	**243.4**	**444.9**	**54.9**	**7.7**	**123.8**
22	Textile mill products	-	11	9	0.8	4.9	0.7	1.3	3.9	10.6	22.2	33.1	(D)	1.1	12.5
23	Apparel and other textile products	-	15	12	2.0	11.2	1.6	3.0	8.4	19.3	8.1	25.4	0.6	1.7	8.6
232	Men's and boys' furnishings	-	5	4	0.6	3.8	0.6	1.0	3.2	7.3	7.1	14.2	(D)	0.5	2.2
25	Furniture and fixtures	-	13	6	0.9	7.6	0.8	1.5	5.1	12.6	13.3	25.9	0.9	0.5	5.6
	McNairy County	-	**44**	**15**	**3.4**	**25.5**	**2.9**	**5.1**	**19.1**	**61.3**	**49.4**	**111.0**	**2.9**	**2.9**	**38.5**
23	Apparel and other textile products	-	7	5	1.2	6.5	1.0	1.7	5.1	17.1	13.0	31.5	0.4	1.3	14.4
2321	Men's and boys' shirts and nightwear	-	5	4	1.0	5.4	0.8	1.4	4.1	16.0	12.7	30.0	0.3	(NA)	(NA)
	Macon County	-	**38**	**12**	**1.7**	**12.6**	**1.5**	**2.7**	**9.9**	**22.6**	**23.4**	**46.9**	**0.8**	**1.4**	**14.2**
23	Apparel and other textile products	-	5	5	0.9	5.5	0.8	1.4	4.5	8.4	6.3	14.7	(D)	(NA)	(NA)
	Madison County	-	**102**	**48**	**8.3**	**88.1**	**6.7**	**13.2**	**64.2**	**208.6**	**319.3**	**523.3**	**15.0**	**7.6**	**103.7**
20	Food and kindred products	-	16	11	2.1	24.2	1.6	3.3	16.6	57.5	129.6	188.9	6.2	1.4	21.1
23	Apparel and other textile products	-	5	3	0.5	3.3	0.5	0.8	2.6	4.4	1.9	6.3	(D)	(NA)	(NA)
24	Lumber and wood products	E2	20	10	0.6	4.8	0.6	1.0	3.8	9.3	8.1	16.8	1.1	0.7	7.1
26	Paper and allied products	-	6	6	0.7	8.4	0.5	1.1	5.8	15.9	32.8	49.2	0.9	0.5	10.3
32	Stone, clay, and glass products	-	10	4	1.2	13.4	1.0	1.7	10.3	41.2	22.8	62.5	(D)	1.2	24.9
	Marion County	-	**33**	**12**	**1.6**	**15.7**	**1.4**	**2.7**	**11.8**	**38.7**	**30.8**	**68.2**	**2.4**	**1.2**	**12.7**
	Marshall County	-	**43**	**22**	**4.3**	**36.4**	**3.6**	**6.7**	**26.7**	**101.5**	**144.7**	**246.9**	**6.5**	**3.7**	**51.5**

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Maury County	–	68	39	6.2	69.8	5.0	9.4	51.0	220.8	351.1	561.9	59.9	4.6	82.7
23	Apparel and other textile products	–	6	6	1.6	9.8	1.4	2.4	8.2	22.1	11.9	34.5	0.4	1.1	10.9
28	Chemicals and allied products	–	7	6	1.4	23.6	1.1	2.2	17.1	106.0	145.7	237.9	44.5	1.1	28.2
30	Rubber and miscellaneous plastics products	E1	6	5	0.5	6.3	0.3	0.7	3.8	11.8	8.9	20.6	0.7	(NA)	(NA)
3079	Miscellaneous plastics products	E1	6	5	0.5	6.3	0.3	0.7	3.8	11.8	8.9	20.6	0.7	(NA)	(NA)
	Monroe County	–	62	19	2.3	17.5	2.0	3.8	13.9	36.3	30.5	66.8	2.2	1.5	13.4
23	Apparel and other textile products	E3	10	6	0.9	4.6	0.8	1.4	4.0	7.6	1.8	9.1	0.1	0.7	3.5
	Montgomery County	–	60	23	5.6	54.7	4.0	7.5	33.3	144.0	155.2	302.3	8.1	5.9	72.2
	Morgan County	–	12	5	1.0	5.8	0.9	1.5	4.9	14.6	12.7	27.0	0.2	(D)	(D)
	Oblon County	–	45	19	5.9	73.5	5.1	10.3	60.5	203.5	277.5	478.5	10.2	5.6	109.3
	Overton County	–	30	8	1.3	8.8	1.1	2.1	6.1	12.9	15.0	28.6	1.3	1.8	15.7
23	Apparel and other textile products	–	3	3	0.9	5.7	0.8	1.5	4.1	8.1	5.1	13.9	0.2	(NA)	(NA)
	Perry County	–	24	8	1.0	6.7	0.9	1.6	6.0	12.3	8.4	20.6	1.9	0.9	5.8
	Putnam County	–	115	42	5.9	49.8	4.7	8.4	33.8	107.1	105.1	210.0	5.5	4.4	76.4
23	Apparel and other textile products	–	9	6	1.4	7.8	1.3	2.0	6.9	15.4	2.3	17.6	0.4	1.1	5.9
2321	Men's and boys' shirts and nightwear	–	4	4	0.8	4.2	0.7	1.0	3.5	5.8	0.5	6.3	0.1	(NA)	(NA)
25	Furniture and fixtures	–	15	8	0.9	7.2	0.7	1.4	5.4	12.1	14.4	26.5	0.3	0.8	10.4
39	Miscellaneous manufacturing industries	–	7	4	0.6	5.3	0.4	0.7	2.8	11.2	6.8	18.2	0.3	(NA)	(NA)
	Rhea County	–	35	15	4.2	33.2	3.6	6.9	25.6	96.0	95.9	186.1	3.8	3.7	44.2
23	Apparel and other textile products	E2	6	5	0.9	6.5	0.8	1.5	4.9	10.7	12.3	22.8	0.1	0.9	6.2
	Roane County	–	37	18	9.5	129.5	6.0	11.5	67.5	382.0	227.3	599.3	2.9	7.1	121.1
	Robertson County	–	45	20	3.1	27.4	2.2	4.0	17.1	67.6	88.8	158.9	3.9	2.4	33.7
25	Furniture and fixtures	E1	9	4	0.6	4.8	0.5	0.9	3.9	15.2	11.2	26.1	0.3	(NA)	(NA)
31	Leather and leather products	–	4	4	0.9	9.0	0.6	1.0	3.7	23.4	14.2	36.8	(D)	(NA)	(NA)
	Rutherford County	–	114	44	8.4	92.0	6.0	11.6	57.0	209.4	269.5	475.5	13.1	6.2	94.9
20	Food and kindred products	–	10	4	0.5	5.1	0.2	0.4	1.7	14.7	29.8	44.7	(D)	(NA)	(NA)
26	Paper and allied products	–	5	3	0.6	6.3	0.4	0.8	4.5	13.4	26.5	40.1	0.7	0.5	5.4
34	Fabricated metal products	–	14	3	0.8	7.7	0.6	1.2	4.8	17.3	19.8	37.8	1.1	(NA)	(NA)
	Scott County	–	31	8	0.9	7.0	0.7	1.3	5.0	14.0	19.3	32.3	2.7	1.0	13.3
	Sequatchie County	–	14	7	1.0	4.6	0.8	1.4	3.7	6.1	3.5	9.5	0.3	0.4	2.4
23	Apparel and other textile products	–	5	4	0.8	3.7	0.7	1.1	3.1	4.7	0.9	5.7	(D)	(NA)	(NA)
	Sevier County	–	51	11	1.9	16.4	1.6	3.5	13.3	38.5	26.8	65.1	0.9	1.7	20.1
	Shelby County	–	1 019	402	58.2	717.2	40.9	81.4	445.0	2 023.7	3 215.8	5 245.6	142.9	57.9	1 252.9
20	Food and kindred products	–	86	61	9.9	136.2	6.4	13.7	82.2	433.3	1 364.0	1 815.2	31.1	9.4	259.1
205	Bakery products	–	14	11	1.6	22.5	1.0	2.1	13.4	53.7	36.4	90.2	1.5	2.0	34.8
208	Beverages	–	7	7	1.7	24.7	0.7	1.3	10.8	88.6	154.4	243.2	4.8	1.3	52.0
23	Apparel and other textile products	–	28	15	2.0	13.3	1.8	3.4	10.5	33.3	34.4	67.5	0.4	1.8	44.5
239	Miscellaneous fabricated textile products	–	16	7	0.7	5.2	0.6	1.1	3.7	11.2	18.7	29.8	0.3	0.9	11.5
242	Sawmills and planing mills	–	23	15	1.3	11.0	1.1	2.3	8.6	14.8	21.3	39.6	3.2	2.2	18.0
2426	Hardwood dimension and flooring	–	14	10	0.9	7.7	0.8	1.8	6.3	14.1	16.1	30.3	(D)	(NA)	(NA)
25	Furniture and fixtures	–	52	19	3.2	28.3	2.6	5.2	17.4	54.8	66.8	120.8	2.7	3.3	44.6
2511	Wood household furniture	–	19	4	1.6	13.4	1.4	2.7	8.4	24.9	28.6	53.2	1.5	(NA)	(NA)
2514	Metal household furniture	–	4	3	0.5	3.8	0.5	0.9	2.9	6.2	11.2	17.2	(D)	(NA)	(NA)
2515	Mattresses and bedsprings	–	6	3	0.5	5.1	0.3	0.6	2.1	13.0	16.4	28.9	(D)	(NA)	(NA)
26	Paper and allied products	–	33	28	5.7	70.8	4.0	8.3	46.1	208.7	287.1	492.5	18.4	5.7	136.9
2641	Paper coating and glazing	–	5	5	0.5	4.9	0.5	0.9	3.2	16.9	33.0	49.5	(D)	(NA)	(NA)
28	Chemicals and allied products	–	73	34	5.5	75.2	3.1	6.7	38.8	395.7	385.7	780.9	33.6	5.3	228.8
287	Agricultural chemicals	–	8	6	0.9	8.4	0.5	1.0	4.8	47.1	39.8	90.5	(D)	0.5	18.3
344	Fabricated structural metal products	–	68	29	3.0	38.5	2.2	4.2	23.3	79.7	86.7	174.7	4.7	2.2	32.7
38	Instruments and related products	–	14	5	0.7	8.0	0.5	0.8	4.3	29.8	11.6	38.5	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	43	23	1.9	30.6	–	–	–	–	–	–	–	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Smith County	-	**16**	**7**	**1.3**	**8.4**	**1.2**	**2.2**	**7.1**	**19.1**	**29.4**	**48.5**	**(D)**	**1.2**	**10.4**
	Sullivan County	-	**122**	**47**	**25.5**	**354.6**	**18.3**	**35.5**	**211.2**	**847.0**	**1 110.2**	**1 936.3**	**56.2**	**22.6**	**482.9**
20	Food and kindred products	-	12	5	0.5	5.4	0.4	0.7	2.8	18.8	25.4	44.1	0.3	0.5	13.8
23	Apparel and other textile products	-	10	8	1.2	6.8	1.1	1.7	5.3	14.8	13.8	27.4	0.2	0.8	4.7
232	Men's and boys' furnishings	-	3	3	0.6	3.9	0.6	1.0	3.0	9.8	11.1	19.7	(D)	(NA)	(NA)
2328	Men's and boys' work clothing	-	3	3	0.6	3.9	0.6	1.0	3.0	9.8	11.1	19.7	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	12	4	1.1	11.4	0.9	1.8	9.3	26.7	19.3	45.4	(D)	1.2	21.0
	Sumner County	-	**129**	**36**	**5.0**	**48.1**	**4.0**	**7.6**	**33.6**	**116.7**	**147.3**	**256.8**	**22.2**	**4.7**	**51.0**
23	Apparel and other textile products	-	7	5	0.6	2.7	0.6	0.9	2.4	4.0	0.7	4.7	(Z)	(NA)	(NA)
25	Furniture and fixtures	-	6	4	0.8	7.0	0.7	1.3	5.4	14.6	13.4	27.2	(D)	1.1	12.6
34	Fabricated metal products	-	13	5	0.7	7.6	0.5	0.9	4.9	17.7	24.7	41.8	0.4	0.8	9.8
	Tipton County	-	**22**	**9**	**1.0**	**9.9**	**0.8**	**1.7**	**6.2**	**31.0**	**38.6**	**71.9**	**5.2**	**1.7**	**24.1**
	Trousdale County	-	**8**	**7**	**1.4**	**8.8**	**1.2**	**2.1**	**7.0**	**24.3**	**15.0**	**34.8**	**0.5**	**1.1**	**9.6**
	Unicoi County	-	**20**	**7**	**1.4**	**14.7**	**1.1**	**2.2**	**10.5**	**33.1**	**16.0**	**48.7**	**1.4**	**1.7**	**20.3**
	Van Buren County	-	**10**	**4**	**0.6**	**3.6**	**0.6**	**1.0**	**2.9**	**3.7**	**4.3**	**8.1**	**(D)**	**(D)**	**(D)**
	Warren County	-	**62**	**21**	**6.5**	**57.0**	**5.5**	**10.6**	**44.4**	**151.8**	**152.7**	**302.3**	**7.0**	**5.3**	**75.6**
23	Apparel and other textile products	-	3	3	0.8	4.6	0.7	1.3	3.6	7.5	3.8	11.1	(D)	(NA)	(NA)
24	Lumber and wood products	-	16	5	0.5	3.5	0.4	0.7	2.4	6.5	7.1	13.3	0.5	(NA)	(NA)
	Washington County	-	**113**	**49**	**11.7**	**109.8**	**8.2**	**15.4**	**61.9**	**244.0**	**244.8**	**488.7**	**12.8**	**10.3**	**132.5**
20	Food and kindred products	-	15	6	0.7	8.4	0.3	0.6	3.0	21.8	25.6	47.4	0.7	0.7	9.3
23	Apparel and other textile products	-	9	5	1.2	7.1	1.0	1.8	5.7	17.9	10.6	28.2	0.8	0.8	5.6
25	Furniture and fixtures	-	7	3	1.2	8.5	1.0	1.9	6.4	15.5	12.6	28.1	(D)	(NA)	(NA)
251	Household furniture	-	7	3	1.2	8.5	1.0	1.9	6.4	15.5	12.6	28.1	(D)	(NA)	(NA)
34	Fabricated metal products	-	9	5	0.5	4.5	0.4	0.8	3.2	11.2	7.1	18.0	0.7	(NA)	(NA)
36	Electric and electronic equipment	-	5	4	4.0	44.6	2.1	4.1	16.9	87.9	62.8	152.4	(D)	3.4	58.0
	Wayne County	-	**24**	**8**	**1.8**	**11.3**	**1.6**	**2.6**	**9.1**	**26.1**	**27.2**	**52.7**	**0.9**	**2.3**	**20.0**
	Weakley County	-	**42**	**16**	**3.5**	**23.9**	**3.0**	**5.5**	**18.2**	**45.2**	**41.8**	**86.2**	**1.8**	**3.1**	**31.2**
23	Apparel and other textile products	E1	5	4	1.6	9.3	1.3	2.3	6.8	14.9	13.2	27.4	(D)	1.4	10.6
	White County	-	**34**	**18**	**3.4**	**25.4**	**2.9**	**5.2**	**19.2**	**48.8**	**54.5**	**102.3**	**2.1**	**2.7**	**23.6**
23	Apparel and other textile products	-	8	7	1.2	6.5	0.9	1.5	4.8	9.9	13.6	24.1	0.3	1.1	6.6
36	Electric and electronic equipment	-	3	3	1.6	14.2	1.4	2.8	11.2	31.4	26.3	55.8	1.2	(NA)	(NA)
	Williamson County	-	**58**	**16**	**3.6**	**31.4**	**2.6**	**5.1**	**18.0**	**70.5**	**60.2**	**131.6**	**7.7**	**2.7**	**36.2**
36	Electric and electronic equipment	-	6	3	0.9	5.8	0.8	1.4	4.1	15.8	18.2	34.1	2.2	(NA)	(NA)
	Wilson County	-	**68**	**29**	**5.4**	**53.1**	**4.5**	**8.8**	**38.8**	**111.8**	**94.1**	**199.7**	**5.2**	**5.7**	**73.3**

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Athens	–	**45**	**19**	**4.0**	**37.3**	**3.0**	**6.0**	**23.2**	**77.9**	**106.9**	**179.3**	**(D)**	**3.1**	**44.8**
25	Furniture and fixtures	–	7	3	0.8	6.6	0.7	1.3	4.3	11.2	11.0	22.3	(D)	(NA)	(NA)
251	Household furniture	–	7	3	0.8	6.6	0.7	1.3	4.3	11.2	11.0	22.3	(D)	(NA)	(NA)
	Bolivar	–	**22**	**4**	**0.6**	**5.3**	**0.5**	**0.9**	**4.1**	**7.8**	**20.5**	**31.0**	**1.2**	**1.4**	**17.3**
	Brownsville	–	**24**	**10**	**1.2**	**9.9**	**1.0**	**1.9**	**7.1**	**20.4**	**25.4**	**46.6**	**1.0**	**(D)**	**(D)**
	Camden	–	**14**	**5**	**0.9**	**8.1**	**0.7**	**1.5**	**6.1**	**18.2**	**18.1**	**36.5**	**(D)**	**(D)**	**(D)**
	Centerville	–	**16**	**7**	**1.2**	**9.0**	**1.1**	**2.2**	**7.6**	**31.7**	**24.3**	**55.0**	**1.9**	**1.1**	**15.5**
	Chattanooga	–	**413**	**188**	**38.1**	**468.0**	**28.4**	**55.2**	**308.3**	**969.6**	**1 517.1**	**2 472.9**	**67.2**	**36.1**	**577.0**
20	Food and kindred products	–	37	24	3.3	36.8	2.1	3.9	19.4	119.2	460.5	586.7	10.0	2.9	66.4
2086	Bottled and canned soft drinks	–	6	5	0.5	5.6	0.1	0.2	1.2	15.1	25.6	40.7	(D)	(NA)	(NA)
225	Knitting mills	–	9	8	1.8	12.3	1.5	2.7	8.8	25.3	70.7	95.9	0.7	(NA)	(NA)
26	Paper and allied products	–	14	10	1.0	11.6	0.8	1.6	8.7	25.9	48.1	73.6	8.2	(NA)	(NA)
27	Printing and publishing	–	54	12	1.2	13.8	0.7	1.2	6.8	24.4	12.9	37.2	(D)	(NA)	(NA)
28	Chemicals and allied products	–	29	14	5.7	91.6	3.9	7.4	51.4	217.6	223.0	443.3	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	–	9	6	0.5	5.3	0.3	0.7	3.3	19.5	47.8	68.0	0.8	(NA)	(NA)
31	Leather and leather products	–	11	9	1.1	7.2	0.8	1.4	4.6	19.7	18.1	37.6	(D)	(NA)	(NA)
3321	Gray iron foundries	–	6	5	3.4	43.7	2.9	6.1	35.4	63.7	92.9	156.8	7.3	(NA)	(NA)
34	Fabricated metal products	–	48	23	7.5	107.7	5.9	11.4	79.4	182.6	203.2	365.9	8.0	(NA)	(NA)
344	Fabricated structural metal products	–	24	11	5.4	82.7	4.2	8.0	60.6	114.7	150.8	251.5	4.9	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	9	5	1.4	17.8	1.1	2.2	13.4	43.1	30.4	68.1	1.1	(NA)	(NA)
35	Machinery, except electrical	–	50	19	3.1	37.6	2.2	4.6	25.4	75.7	76.5	151.7	4.7	(NA)	(NA)
353	Construction and related machinery	–	7	6	1.4	16.4	0.9	1.7	10.8	36.3	41.6	76.2	1.1	(NA)	(NA)
--	Administrative and auxiliary	–	17	10	0.6	9.3	–	–	–	–	–	–	–	(NA)	(NA)
	Cleveland	–	**113**	**46**	**9.9**	**89.3**	**8.0**	**14.8**	**61.5**	**185.6**	**273.5**	**454.2**	**(D)**	**11.4**	**153.7**
22	Textile mill products	E2	9	6	0.8	6.1	0.7	1.4	4.6	12.1	15.5	27.6	(D)	(NA)	(NA)
25	Furniture and fixtures	–	22	9	1.8	12.5	1.6	3.0	9.8	23.0	26.9	49.7	(D)	(NA)	(NA)
36	Electric and electronic equipment	–	4	4	3.7	40.1	3.0	5.8	27.1	87.2	137.7	223.0	9.2	3.2	62.2
	Clinton	–	**19**	**8**	**0.9**	**9.9**	**0.7**	**1.4**	**7.2**	**34.8**	**23.9**	**58.2**	**3.8**	**(NA)**	**(NA)**
	Collierville	–	**23**	**15**	**1.8**	**18.0**	**1.4**	**2.8**	**12.5**	**79.7**	**124.5**	**204.5**	**(D)**	**(D)**	**(D)**
	Columbia	–	**48**	**28**	**4.6**	**52.8**	**3.6**	**6.9**	**38.5**	**153.5**	**271.7**	**430.9**	**(D)**	**3.2**	**46.3**
30	Rubber and miscellaneous plastics products	E1	6	5	0.5	6.3	0.3	0.7	3.8	11.8	8.9	20.6	0.7	(NA)	(NA)
3079	Miscellaneous plastics products	E1	6	5	0.5	6.3	0.3	0.7	3.8	11.8	8.9	20.6	0.7	(NA)	(NA)
	Cookeville	–	**92**	**35**	**5.0**	**43.5**	**4.0**	**7.2**	**29.2**	**95.8**	**93.4**	**187.0**	**5.2**	**3.7**	**71.4**
232	Men's and boys' furnishings	–	4	3	0.9	5.1	0.9	1.4	4.6	11.9	1.8	13.6	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	7	4	0.6	5.3	0.4	0.7	2.8	11.2	6.8	18.2	0.3	(NA)	(NA)
	Crossville	–	**50**	**14**	**1.9**	**17.3**	**1.6**	**2.8**	**12.4**	**35.4**	**34.0**	**69.8**	**3.6**	**2.1**	**33.2**
	Dickson	–	**23**	**8**	**2.4**	**19.7**	**2.0**	**3.7**	**15.3**	**51.2**	**30.6**	**82.4**	**2.0**	**2.1**	**28.3**
	Dyersburg	–	**36**	**8**	**3.8**	**42.9**	**3.2**	**6.8**	**32.1**	**99.7**	**114.3**	**213.7**	**(D)**	**3.7**	**66.9**
	Elizabethton	–	**28**	**16**	**3.5**	**31.7**	**2.9**	**5.5**	**24.1**	**58.4**	**54.5**	**111.4**	**3.6**	**4.0**	**40.1**
	Etowah	–	**17**	**11**	**1.7**	**12.4**	**1.4**	**2.6**	**9.6**	**18.5**	**42.4**	**66.9**	**1.5**	**1.5**	**21.2**
233	Women's and misses' outerwear	E1	4	3	0.5	2.6	0.4	0.8	2.2	3.5	0.3	3.7	(D)	(NA)	(NA)
	Fayetteville	–	**32**	**12**	**3.3**	**22.9**	**2.9**	**5.3**	**18.9**	**61.8**	**101.8**	**162.5**	**(D)**	**2.6**	**32.5**
	Franklin	–	**44**	**16**	**3.5**	**30.2**	**2.5**	**5.0**	**17.6**	**69.3**	**59.2**	**129.4**	**7.6**	**2.5**	**33.2**
	Gallatin	–	**45**	**16**	**2.3**	**23.4**	**1.9**	**3.7**	**17.2**	**58.5**	**96.3**	**151.0**	**(D)**	**2.6**	**32.4**
	Goodlettsville	–	**33**	**11**	**1.5**	**19.2**	**1.2**	**2.3**	**14.1**	**34.0**	**111.6**	**146.2**	**1.9**	**(NA)**	**(NA)**
	Hendersonville	–	**49**	**4**	**0.8**	**11.0**	**0.5**	**1.0**	**6.0**	**27.9**	**18.6**	**44.1**	**1.7**	**(NA)**	**(NA)**

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Hohenwald	–	**24**	**6**	**1.2**	**12.4**	**1.1**	**2.0**	**10.6**	**21.5**	**19.7**	**40.9**	**1.3**	**1.3**	**18.1**
	Humboldt	–	**20**	**12**	**1.9**	**19.0**	**1.6**	**3.1**	**14.4**	**35.2**	**68.5**	**101.3**	**4.3**	**2.0**	**21.4**
	Jackson	–	**91**	**41**	**5.1**	**57.1**	**4.0**	**8.0**	**39.6**	**129.4**	**246.0**	**369.3**	**10.1**	**(D)**	**(D)**
20	Food and kindred products	–	16	11	2.1	24.2	1.6	3.3	16.6	57.5	129.6	188.9	6.2	(NA)	(NA)
23	Apparel and other textile products	–	5	3	0.5	3.3	0.5	0.8	2.6	4.4	1.9	6.3	(D)	(NA)	(NA)
24	Lumber and wood products	E1	16	9	0.6	4.6	0.5	1.0	3.6	8.6	7.8	15.8	1.0	(NA)	(NA)
	Johnson City	–	**87**	**41**	**10.7**	**102.2**	**7.4**	**14.1**	**57.0**	**232.2**	**225.4**	**458.0**	**11.8**	**7.5**	**85.8**
20	Food and kindred products	–	10	5	0.6	7.5	0.2	0.5	2.6	20.9	22.3	43.1	0.6	(NA)	(NA)
25	Furniture and fixtures	–	6	3	1.2	8.3	1.0	1.9	6.3	15.2	12.1	27.2	(D)	(NA)	(NA)
251	Household furniture	–	6	3	1.2	8.3	1.0	1.9	6.3	15.2	12.1	27.2	(D)	(NA)	(NA)
36	Electric and electronic equipment	–	5	4	4.0	44.6	2.1	4.1	16.9	87.9	62.8	152.4	(D)	(NA)	(NA)
	Kingsport	–	**57**	**23**	**18.5**	**271.7**	**12.9**	**25.4**	**164.4**	**436.3**	**907.2**	**1 346.0**	**(D)**	**6.2**	**88.5**
	Knoxville	–	**323**	**109**	**18.5**	**183.4**	**14.2**	**27.1**	**122.3**	**404.4**	**582.1**	**982.1**	**24.9**	**23.6**	**313.8**
20	Food and kindred products	–	38	22	3.4	36.2	2.2	4.7	20.6	83.1	237.4	320.7	7.4	(NA)	(NA)
205	Bakery products	–	4	4	0.9	9.8	0.4	0.8	3.5	17.1	12.4	29.5	(D)	(NA)	(NA)
2051	Bread, cake, and related products	–	4	4	0.9	9.8	0.4	0.8	3.5	17.1	12.4	29.5	(D)	(NA)	(NA)
23	Apparel and other textile products	–	27	17	4.9	34.5	4.4	7.9	28.2	92.5	100.0	190.9	2.2	(NA)	(NA)
27	Printing and publishing	–	69	12	1.1	13.0	0.6	1.1	6.6	33.5	14.0	47.5	1.8	(NA)	(NA)
34	Fabricated metal products	E2	25	8	0.5	6.2	0.4	0.7	4.0	9.7	13.1	22.7	(D)	(NA)	(NA)
	Lafayette	–	**19**	**7**	**1.3**	**9.9**	**1.1**	**2.1**	**7.8**	**18.3**	**20.9**	**40.1**	**(D)**	**1.0**	**11.9**
	La Follette	–	**23**	**7**	**1.3**	**7.9**	**1.0**	**1.8**	**5.7**	**12.3**	**13.4**	**25.2**	**0.9**	**2.0**	**15.3**
	La Vergne	–	**16**	**8**	**2.0**	**27.0**	**1.3**	**2.4**	**16.1**	**52.4**	**109.1**	**155.9**	**(D)**	**(D)**	**(D)**
	Lawrenceburg	–	**30**	**11**	**4.6**	**44.8**	**4.2**	**7.7**	**37.7**	**109.8**	**156.8**	**250.1**	**(D)**	**(D)**	**(D)**
	Lebanon	–	**51**	**25**	**5.0**	**50.5**	**4.2**	**8.3**	**37.0**	**108.0**	**92.1**	**194.0**	**5.0**	**5.2**	**68.5**
	Lenoir City	–	**12**	**4**	**0.6**	**3.9**	**0.5**	**1.0**	**3.3**	**6.7**	**15.9**	**22.6**	**0.1**	**0.5**	**4.1**
	Lexington	–	**26**	**15**	**2.9**	**23.9**	**2.6**	**5.0**	**21.0**	**65.1**	**51.0**	**113.6**	**3.1**	**2.4**	**32.9**
	Livingston	–	**23**	**6**	**1.2**	**7.8**	**1.0**	**2.0**	**5.5**	**11.4**	**14.0**	**26.0**	**1.2**	**1.7**	**14.6**
	McKenzie	–	**14**	**6**	**1.4**	**7.7**	**1.2**	**2.0**	**6.2**	**17.2**	**18.3**	**35.2**	**0.3**	**1.4**	**16.5**
	McMinnville	–	**51**	**18**	**6.1**	**54.6**	**5.2**	**10.0**	**42.3**	**145.5**	**148.4**	**291.9**	**(D)**	**(D)**	**(D)**
	Manchester	–	**22**	**5**	**1.2**	**10.0**	**1.0**	**2.0**	**7.6**	**31.7**	**15.2**	**46.8**	**(D)**	**0.8**	**4.8**
	Martin	–	**16**	**4**	**0.9**	**6.2**	**0.8**	**1.3**	**4.6**	**13.2**	**16.4**	**29.4**	**0.6**	**1.3**	**17.3**
	Maryville	–	**36**	**8**	**0.6**	**5.6**	**0.4**	**0.8**	**3.2**	**14.8**	**15.8**	**30.4**	**1.8**	**0.9**	**20.2**
	Memphis	–	**917**	**358**	**51.7**	**634.8**	**36.2**	**72.2**	**391.0**	**1 725.4**	**2 719.2**	**4 452.4**	**106.5**	**54.1**	**1 161.6**
20	Food and kindred products	–	79	56	8.8	116.7	5.5	12.2	69.7	352.3	1 200.4	1 572.1	24.8	9.0	217.7
204	Grain mill products	–	13	9	1.4	23.6	1.1	2.4	18.2	132.4	162.9	292.0	7.0	(NA)	(NA)
207	Fats and oils	–	13	8	1.3	17.5	0.9	1.8	10.8	32.1	679.6	734.4	6.6	(NA)	(NA)
209	Miscellaneous foods and kindred products	–	11	6	0.9	10.0	0.6	1.1	5.3	26.2	30.3	56.6	1.3	(NA)	(NA)
232	Men's and boys' furnishings	–	5	5	0.8	5.1	0.7	1.4	4.4	18.5	15.0	33.5	(D)	(NA)	(NA)
24	Lumber and wood products	E2	74	33	3.2	26.7	2.8	5.4	20.2	41.0	55.3	98.9	3.8	(NA)	(NA)
2426	Hardwood dimension and flooring	–	14	10	0.9	7.7	0.8	1.8	6.3	14.1	16.1	30.3	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members	E4	28	12	1.4	11.5	1.2	2.3	8.2	20.0	26.7	45.7	0.4	(NA)	(NA)
2431	Millwork	E5	9	5	1.0	8.0	0.9	1.6	5.9	13.4	19.1	31.5	0.2	(NA)	(NA)
25	Furniture and fixtures	–	48	16	2.9	26.1	2.4	4.7	15.8	49.8	60.5	109.5	(D)	(NA)	(NA)
2515	Mattresses and bedsprings	–	6	3	0.5	5.1	0.3	0.6	2.1	13.0	16.4	28.9	(D)	(NA)	(NA)
2641	Paper coating and glazing	–	5	5	0.5	4.9	0.5	0.9	3.2	16.9	33.0	49.5	(D)	(NA)	(NA)
265	Paperboard containers and boxes	–	13	11	1.3	17.2	1.0	2.2	11.9	36.1	54.7	90.7	3.0	(NA)	(NA)
2653	Corrugated and solid fiber boxes	–	8	6	0.7	10.0	0.5	1.1	6.3	20.4	40.3	60.3	(D)	(NA)	(NA)
27	Printing and publishing	E1	146	22	2.9	37.4	1.7	3.1	20.8	83.5	36.3	119.7	9.4	3.1	55.1

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Memphis—Con.													
32	Stone, clay, and glass products	E2	35	13	0.7	7.4	0.5	1.0	4.3	16.2	17.7	33.8	2.6	(NA)	(NA)
327	Concrete, gypsum, and plaster products	E2	20	11	0.5	5.7	0.3	0.6	3.0	11.5	13.4	24.8	2.1	(NA)	(NA)
34	Fabricated metal products	–	104	44	4.1	49.8	3.1	6.1	32.1	106.2	124.1	237.9	6.4	3.5	47.4
344	Fabricated structural metal products	–	59	26	2.6	33.8	1.9	3.6	20.2	71.0	70.2	149.5	3.6	(NA)	(NA)
3441	Fabricated structural metal	–	14	6	0.6	7.2	0.5	0.9	5.2	15.4	19.0	34.3	0.5	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	–	7	5	1.0	14.7	0.6	1.2	8.1	35.8	19.4	63.5	1.6	(NA)	(NA)
346	Metal forgings and stampings	–	9	7	0.7	7.8	0.6	1.3	6.3	21.3	43.5	64.3	2.1	(NA)	(NA)
35	Machinery, except electrical	–	86	18	4.2	66.8	3.1	5.7	45.8	123.0	107.7	232.9	8.3	4.1	74.3
356	General industrial machinery	–	13	3	0.6	6.9	0.3	0.6	3.9	19.0	11.8	30.6	(D)	(NA)	(NA)
36	Electric and electronic equipment	–	33	11	2.1	23.7	1.8	3.2	16.2	74.5	50.1	124.7	2.2	(NA)	(NA)
3714	Motor vehicle parts and accessories	E1	12	4	0.6	6.0	0.5	1.1	4.5	14.0	12.7	24.9	0.4	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	47	14	1.6	13.5	1.3	2.4	9.4	28.0	27.6	55.2	0.6	(NA)	(NA)
--	Administrative and auxiliary	–	42	22	1.9	30.3	–	–	–	–	–	–	–	(NA)	(NA)
	Milan	–	18	10	3.9	41.3	2.9	5.6	27.6	81.9	61.6	140.5	5.9	5.6	65.9
	Mount Pleasant	–	10	5	0.5	6.4	0.4	0.8	4.5	13.4	17.7	32.5	(D)	(D)	(D)
	Murfreesboro	–	68	29	5.3	54.9	4.0	7.5	34.7	136.7	134.6	272.4	6.4	5.1	80.0
	Nashville-Davidson	–	829	281	48.4	596.1	31.1	60.2	341.8	1 193.9	1 540.9	2 720.5	96.8	(NA)	(NA)
202	Dairy products	–	7	6	0.8	10.7	0.3	0.7	4.0	26.6	59.2	86.2	1.9	(NA)	(NA)
26	Paper and allied products	–	11	6	0.7	8.2	0.6	1.1	5.4	16.5	23.5	39.8	1.1	(NA)	(NA)
2751	Commercial printing, letterpress	E1	60	6	0.5	5.2	0.4	0.7	3.8	10.3	7.3	17.8	1.0	(NA)	(NA)
279	Printing trade services	E1	27	7	0.6	7.4	0.5	0.9	5.2	11.8	3.0	14.7	0.9	(NA)	(NA)
28	Chemicals and allied products	–	43	14	4.6	74.5	3.2	6.1	43.7	178.0	213.2	394.7	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	–	15	5	0.8	9.1	0.5	1.0	4.6	25.0	16.6	40.4	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	30	12	3.9	82.7	3.3	7.3	65.6	166.0	145.1	307.1	(D)	(NA)	(NA)
35	Machinery, except electrical	E1	69	24	1.6	21.7	1.3	2.7	15.5	34.6	23.6	56.6	2.5	(NA)	(NA)
354	Metalworking machinery	–	21	9	0.5	6.7	0.4	0.9	5.1	9.6	4.7	13.9	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	24	5	0.5	6.9	0.4	0.8	5.0	10.8	6.0	16.0	0.9	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E1	24	5	0.5	6.9	0.4	0.8	5.0	10.8	6.0	16.0	0.9	(NA)	(NA)
36	Electric and electronic equipment	–	69	13	1.8	16.5	1.5	2.6	10.3	39.5	38.9	82.7	3.3	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	E1	6	3	0.7	5.3	0.7	1.2	4.1	7.5	7.9	16.1	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	30	22	3.6	44.6	–	–	–	–	–	–	–	(NA)	(NA)
	Oneida	–	18	5	0.7	5.4	0.6	1.1	4.0	11.6	16.9	27.8	2.2	0.9	11.9
	Paris	–	30	13	3.8	35.7	3.2	6.1	28.0	100.1	113.1	210.9	(D)	3.0	41.2
	Portland	–	21	11	1.3	9.3	1.1	1.9	7.3	21.8	20.7	41.8	1.5	0.9	6.5
	Pulaski	–	22	11	1.6	12.8	1.4	2.7	10.1	24.8	26.3	48.8	(D)	1.7	14.9
	Ripley	–	17	9	1.7	14.1	1.6	3.3	12.8	23.7	34.4	58.3	2.0	0.6	5.3
	Savannah	–	33	9	1.9	11.8	1.8	3.0	9.7	22.1	20.9	42.5	0.5	1.3	11.3
	Selmer	–	19	8	1.9	16.6	1.7	3.0	11.9	36.3	28.1	63.4	1.7	1.6	23.8
	Sevierville	–	21	9	1.0	7.3	0.8	1.6	5.9	20.6	12.4	32.8	0.5	1.5	17.5
	Shelbyville	–	48	29	4.6	40.6	3.9	7.5	31.6	122.4	155.1	272.7	(D)	4.1	73.2
3952	Lead pencils and art goods	–	5	4	0.8	6.7	0.6	1.3	4.5	8.7	20.9	29.1	(D)	(NA)	(NA)
	South Pittsburg	–	15	8	1.1	10.3	1.0	1.9	8.1	23.2	19.7	42.7	1.7	0.9	6.3
22	Textile mill products	–	3	3	0.5	4.3	0.5	1.0	3.6	7.6	5.3	12.6	(D)	(NA)	(NA)
	Springfield	–	34	19	3.0	26.6	2.1	3.9	16.4	64.9	85.7	153.2	3.7	2.1	31.6
31	Leather and leather products	–	4	4	0.9	9.0	0.6	1.0	3.7	23.4	14.2	36.8	(D)	(NA)	(NA)
	Sweetwater	–	25	9	1.1	10.0	1.0	1.9	7.8	23.5	20.2	43.9	1.8	0.5	6.8
	Tullahoma	–	47	23	3.1	27.3	2.5	4.9	19.7	50.7	59.4	111.8	3.2	2.9	37.8
31	Leather and leather products	–	3	3	0.7	4.6	0.5	1.0	3.2	10.0	11.4	21.6	(D)	(NA)	(NA)
	Union City	–	20	8	4.6	62.0	4.0	8.3	50.3	186.1	263.4	447.3	(D)	(D)	(D)
	Winchester	–	18	5	0.7	6.7	0.6	1.2	5.5	9.7	44.6	56.0	0.5	(NA)	(NA)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to evoid disclosing operations of individual companies. (NA) Not available. (Z) Less then 50 thousend dollers or hours; under 50 employees.

[1]Payroll and sales deta for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rether then from census report forms. These deta were then used in conjunction with industry averages to estimete the balance of items shown for these small establishments. This technique was also used for e small number of other establishments whose reports were not received at time date were tabulated. The following symbols ere shown for those industry groups and industries where estimeted data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials end value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used es materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
TENNESSEE	6487	508	8	171	443	979	341	136	862	242	41	191	92	342	118	522	587	240	198	74	265	127
1 TO 4 EMPLOYEES	2598	162	-	36	73	586	128	19	513	89	14	50	16	129	26	165	239	89	72	38	125	29
5 TO 9 EMPLOYEES	689	45	-	13	25	109	36	3	110	26	8	15	5	44	11	63	80	27	20	13	31	5
10 TO 19 EMPLOYEES	723	48	1	15	32	92	45	13	87	18	7	21	3	54	13	70	106	20	25	5	32	16
20 TO 49 EMPLOYEES	881	83	1	24	47	104	42	31	75	41	8	30	11	69	17	101	85	25	19	4	29	35
50 TO 99 EMPLOYEES	525	67	1	18	56	46	34	24	39	18	2	27	8	21	11	50	32	10	19	6	19	17
100 TO 249 EMPLOYEES	582	63	5	29	116	39	31	32	23	20	1	30	12	18	21	50	18	23	14	3	20	14
250 TO 499 EMPLOYEES	302	27	-	22	71	2	13	7	6	13	1	11	35	1	12	14	15	19	14	3	6	10
500 TO 999 EMPLOYEES	129	12	-	12	19	1	10	4	5	6	-	4	2	5	3	5	6	20	9	2	3	1
1000 TO 2499 EMPLOYEES	42	1	-	2	4	-	2	3	3	4	-	1	-	-	3	3	6	5	5	-	-	-
2500 EMPLOYEES AND OVER	16	-	-	-	-	-	-	-	1	7	-	2	-	1	1	1	-	2	1	-	-	-
ANDERSON COUNTY	84	2	-	5	2	8	5	-	8	1	-	1	1	5	3	7	21	5	3	6	1	-
1 TO 19 EMPLOYEES	58	1	-	5	-	7	3	-	5	-	-	-	1	5	2	4	13	4	3	4	1	-
20 TO 99 EMPLOYEES	18	1	-	-	1	1	2	-	3	-	-	-	-	-	1	2	6	1	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	1	-	-	-	-	-	-	1	-	-	-	1	1	-	-	1	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	1	-	-
BEDFORD COUNTY	56	7	-	3	6	8	1	1	4	-	-	2	4	1	-	2	2	-	3	-	12	-
1 TO 19 EMPLOYEES	25	3	-	-	2	7	1	-	2	-	-	-	1	-	-	1	1	-	2	-	5	-
20 TO 99 EMPLOYEES	18	3	-	2	-	1	-	1	1	-	-	1	3	1	-	-	1	-	-	-	4	-
100 TO 249 EMPLOYEES	8	-	-	-	4	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	2	-
250 EMPLOYEES AND OVER	5	1	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	1	-
BENTON COUNTY	20	3	-	-	2	9	-	-	1	-	-	-	1	-	1	-	2	1	-	-	-	-
1 TO 19 EMPLOYEES	15	3	-	-	1	9	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-
BLEDSOE COUNTY	22	1	-	1	3	13	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	1
1 TO 19 EMPLOYEES	19	1	-	1	3	12	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
20 TO 99 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-
BLOUNT COUNTY	57	5	-	1	1	5	1	-	10	3	1	1	-	9	4	3	3	-	6	-	4	-
1 TO 19 EMPLOYEES	41	3	-	-	-	4	1	-	9	2	1	-	-	7	1	3	3	-	5	-	2	-
20 TO 99 EMPLOYEES	10	2	-	-	-	-	-	-	1	1	-	-	-	2	1	-	-	-	1	-	2	-
100 TO 249 EMPLOYEES	3	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
BRADLEY COUNTY	132	7	-	9	9	14	25	3	13	5	-	8	5	7	1	9	5	4	-	2	5	1
1 TO 19 EMPLOYEES	80	5	-	3	2	13	16	-	9	4	-	4	3	4	1	6	4	-	-	2	4	-
20 TO 99 EMPLOYEES	30	1	-	4	3	1	5	1	3	-	-	4	1	2	-	2	1	-	-	-	1	1
100 TO 249 EMPLOYEES	7	1	-	1	1	-	-	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	15	-	-	1	3	-	4	-	-	1	-	-	-	1	-	1	-	4	-	-	-	-
CAMPBELL COUNTY	38	3	-	2	5	1	-	1	3	1	-	1	-	3	-	7	4	2	5	-	-	-
1 TO 19 EMPLOYEES	23	3	-	1	1	1	-	1	3	-	-	1	-	1	-	3	2	2	4	-	-	-
20 TO 99 EMPLOYEES	9	-	-	-	1	-	-	-	-	1	-	-	-	2	-	2	2	-	1	-	-	-
100 TO 249 EMPLOYEES	4	-	-	1	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANNON COUNTY	16	1	-	1	7	1	1	-	2	-	-	-	-	-	-	1	2	-	-	-	-	-
1 TO 19 EMPLOYEES	6	1	-	-	-	-	1	-	2	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	4	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CARROLL COUNTY	36	5	-	-	7	12	1	-	3	1	-	-	1	2	1	-	1	1	-	-	1	-
1 TO 19 EMPLOYEES	24	4	-	-	2	11	-	-	3	1	-	-	-	1	-	-	1	-	-	-	1	-
20 TO 99 EMPLOYEES	5	1	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	4	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
CARTER COUNTY	35	1	-	1	2	7	1	1	3	3	-	-	-	4	1	5	2	-	2	-	1	1
1 TO 19 EMPLOYEES	19	1	-	-	-	7	-	-	2	-	-	-	-	2	-	4	1	-	2	-	-	-
20 TO 99 EMPLOYEES	7	-	-	1	-	-	-	-	1	2	-	-	-	2	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	-	1	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-	1	1
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-
CHEATHAM COUNTY	25	1	-	-	1	10	-	-	1	-	-	-	1	1	-	4	-	1	5	-	-	-
1 TO 19 EMPLOYEES	18	1	-	-	1	10	-	-	1	-	-	-	-	1	-	2	-	-	2	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO[1]a
CHESTER COUNTY	10	-	-	-	2	2	-	1	1	-	-	1	-	-	-	1	2	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLAIBORNE COUNTY	28	1	-	2	1	9	5	-	2	-	-	-	-	2	-	1	3	-	2	-	-	-
1 TO 19 EMPLOYEES	18	1	-	-	-	8	2	-	2	-	-	-	-	2	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLAY COUNTY	9	-	-	1	1	4	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	2	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
COCKE COUNTY	33	2	-	-	-	10	6	2	3	1	-	1	1	1	-	2	1	2	-	-	-	1
1 TO 19 EMPLOYEES	15	-	-	-	-	8	2	-	3	-	-	-	1	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	6	1	-	-	-	-	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-	1
100 TO 249 EMPLOYEES	10	-	-	-	-	2	2	1	-	1	-	1	-	1	-	-	-	2	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
COFFEE COUNTY	71	3	-	-	11	7	3	3	5	-	1	1	3	3	-	2	13	2	8	1	5	-
1 TO 19 EMPLOYEES	40	1	-	-	5	6	2	-	4	-	-	-	-	1	-	1	12	2	5	-	1	-
20 TO 99 EMPLOYEES	19	2	-	-	2	1	1	2	1	-	1	-	1	2	-	1	1	-	2	-	2	-
100 TO 249 EMPLOYEES	6	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-
250 EMPLOYEES AND OVER	6	-	-	-	1	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	2	-
CROCKETT COUNTY	15	2	-	-	3	1	-	-	2	-	-	1	-	1	-	1	2	1	-	-	-	1
1 TO 19 EMPLOYEES	9	1	-	-	-	1	-	-	2	-	-	-	-	1	-	1	1	1	-	-	-	1
20 TO 99 EMPLOYEES	3	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUMBERLAND COUNTY	55	5	-	2	4	18	4	-	6	-	-	2	-	5	1	1	4	-	-	-	2	1
1 TO 19 EMPLOYEES	41	3	-	-	1	16	4	-	4	-	-	1	-	5	1	-	4	-	-	-	1	1
20 TO 99 EMPLOYEES	7	1	-	1	2	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	1	-	-	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
DAVIDSON COUNTY	865	65	1	12	25	42	22	11	229	43	6	19	8	35	9	78	78	69	27	13	43	30
1 TO 19 EMPLOYEES	572	26	-	8	12	29	16	5	180	29	5	10	5	21	3	41	52	56	15	12	39	8
20 TO 99 EMPLOYEES	199	25	-	-	6	11	5	2	32	10	1	5	1	10	6	29	24	10	7	1	3	11
100 TO 249 EMPLOYEES	55	7	1	2	5	1	-	3	12	2	-	2	-	3	-	6	2	1	2	-	1	5
250 EMPLOYEES AND OVER	39	7	-	2	2	1	1	1	5	2	-	2	2	1	-	2	-	2	3	-	-	6
DECATUR COUNTY	26	-	-	-	4	14	-	-	2	-	1	-	-	-	-	1	3	-	-	-	-	1
1 TO 19 EMPLOYEES	16	-	-	-	-	14	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	2	-	-	-	-	1
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DE KALB COUNTY	19	-	-	1	7	3	1	-	1	-	-	-	1	1	-	-	1	1	1	1	-	-
1 TO 19 EMPLOYEES	10	-	-	-	2	3	1	-	1	-	-	-	-	1	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	3	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-
DICKSON COUNTY	50	5	-	-	3	21	2	3	2	-	-	-	-	2	1	2	4	-	4	-	1	-
1 TO 19 EMPLOYEES	35	4	-	-	-	20	-	1	2	-	-	-	-	2	-	-	4	-	1	-	1	-
20 TO 99 EMPLOYEES	8	1	-	-	-	1	2	2	-	-	-	-	-	-	-	1	-	-	1	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DYER COUNTY	46	4	-	1	2	3	1	-	5	1	-	3	-	2	1	6	4	3	5	1	4	-
1 TO 19 EMPLOYEES	33	3	-	-	-	3	1	-	5	1	-	1	-	2	1	3	4	1	4	1	3	-
20 TO 99 EMPLOYEES	5	1	-	-	1	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	1	1	-	-	-	-	-	-	1	-	-	-	2	-	1	1	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
FAYETTE COUNTY	18	1	-	-	1	3	-	1	1	-	1	2	-	1	1	2	3	-	1	-	-	-
1 TO 19 EMPLOYEES	11	-	-	-	-	3	-	-	1	-	1	1	-	1	-	1	3	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	1	-	-	-	1	-	-	1	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
FENTRESS COUNTY	34	3	-	1	5	18	-	-	1	-	-	-	-	3	-	2	-	-	1	-	-	-
1 TO 19 EMPLOYEES	28	2	-	1	1	17	-	-	1	-	-	-	-	3	-	2	-	-	1	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANKLIN COUNTY	36	3	-	1	6	6	1	1	3	-	-	1	1	7	-	1	1	-	2	1	1	-
1 TO 19 EMPLOYEES	25	3	-	-	2	5	1	-	3	-	-	-	-	6	-	1	1	-	1	1	1	-
20 TO 99 EMPLOYEES	5	-	-	-	2	1	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
GIBSON COUNTY	60	2	-	5	6	4	2	4	9	1	-	2	3	3	-	9	3	2	2	2	-	1
1 TO 19 EMPLOYEES	28	1	-	1	1	2	1	-	9	-	-	1	-	2	-	5	3	-	1	1	-	-
20 TO 99 EMPLOYEES	10	-	-	2	1	-	-	3	-	1	-	-	-	1	-	1	-	-	-	1	-	-
100 TO 249 EMPLOYEES	12	1	-	1	1	2	1	1	-	-	-	-	2	-	-	2	-	-	-	-	-	1
250 EMPLOYEES AND OVER	10	-	-	1	3	-	-	-	-	-	-	1	1	-	-	1	-	2	1	-	-	-
GILES COUNTY	35	6	-	1	7	5	-	1	4	-	-	2	1	1	1	1	3	-	2	-	-	-
1 TO 19 EMPLOYEES	16	2	-	1	1	4	-	-	4	-	-	1	-	1	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	11	3	-	-	4	1	-	1	-	-	-	-	-	-	-	1	-	-	1	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-	1	-	-	-
GRAINGER COUNTY	23	1	-	1	1	5	10	-	2	-	-	-	-	-	-	-	2	-	1	-	-	-
1 TO 19 EMPLOYEES	16	1	-	-	-	4	7	-	2	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	1	-	-	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREENE COUNTY	74	8	1	4	3	11	4	-	8	-	-	3	1	4	1	7	8	4	4	3	-	-
1 TO 19 EMPLOYEES	39	5	-	1	-	9	2	-	4	-	-	2	1	2	-	3	5	2	-	3	-	-
20 TO 99 EMPLOYEES	18	2	-	1	1	2	1	-	4	-	-	-	-	2	-	2	2	-	1	-	-	-
100 TO 249 EMPLOYEES	8	1	1	-	2	-	-	-	-	-	-	1	-	-	-	1	1	-	1	-	-	-
250 EMPLOYEES AND OVER	9	-	-	2	-	-	1	-	-	-	-	-	-	-	1	1	-	2	2	-	-	-
GRUNDY COUNTY	20	-	-	-	4	11	2	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	15	-	-	-	2	10	1	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMBLEN COUNTY	108	6	-	5	2	16	28	4	8	2	-	5	1	4	-	10	11	3	-	1	1	1
1 TO 19 EMPLOYEES	63	3	-	3	1	6	17	1	6	1	-	1	1	4	-	8	8	1	-	1	1	-
20 TO 99 EMPLOYEES	23	1	-	1	1	8	5	1	1	-	-	1	-	-	-	1	2	-	-	-	-	1
100 TO 249 EMPLOYEES	9	1	-	1	-	2	1	1	1	-	-	2	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	13	1	-	-	-	-	5	1	-	1	-	1	-	-	-	1	1	2	-	-	-	-
HAMILTON COUNTY	506	43	-	30	18	30	18	15	65	35	3	11	12	21	20	59	59	14	12	6	17	18
1 TO 19 EMPLOYEES	291	16	-	13	13	24	11	4	50	18	3	4	3	10	10	34	38	6	9	4	13	8
20 TO 99 EMPLOYEES	124	15	-	4	3	4	5	7	13	7	-	5	4	8	2	15	13	4	3	1	3	8
100 TO 249 EMPLOYEES	54	8	-	6	2	2	2	4	-	6	-	2	4	2	1	7	3	1	-	1	1	2
250 EMPLOYEES AND OVER	37	4	-	7	-	-	-	-	2	4	-	-	1	1	7	3	5	3	-	-	-	-
HANCOCK COUNTY	2	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARDEMAN COUNTY	46	2	-	-	2	28	-	-	2	2	-	1	1	2	-	-	2	2	1	-	1	-
1 TO 19 EMPLOYEES	35	2	-	-	-	27	-	-	2	-	-	-	-	2	-	-	1	-	-	-	1	-
20 TO 99 EMPLOYEES	5	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	2	1	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	2	-	-	-	-	1	-	1	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
HARDIN COUNTY	48	2	-	-	5	21	1	1	1	1	-	2	1	4	1	2	3	-	-	-	3	-
1 TO 19 EMPLOYEES	34	2	-	-	1	18	1	-	1	1	-	1	-	3	-	1	3	-	-	-	2	-
20 TO 99 EMPLOYEES	5	-	-	-	-	1	-	-	-	-	-	1	-	1	1	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	5	-	-	-	2	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-

See footnotes st end of tsble.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
HAWKINS COUNTY	20	3	-	1	-	4	1	-	4	1	-	1	-	1	-	-	3	-	1	-	-	-
1 TO 19 EMPLOYEES	12	3	-	-	-	4	-	-	3	-	-	-	-	-	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	1	-	-	-	-	1	1	-	-	-	1	-	-	1	-	1	-	-	-
HAYWOOD COUNTY	24	-	-	1	2	6	-	-	2	1	-	4	-	2	1	1	2	-	-	-	1	1
1 TO 19 EMPLOYEES	14	-	-	1	-	5	-	-	2	1	-	1	-	2	-	1	-	-	-	-	1	-
20 TO 99 EMPLOYEES	6	-	-	-	1	1	-	-	-	-	-	1	-	-	1	-	1	-	-	-	-	1
100 TO 249 EMPLOYEES	3	-	-	-	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
HENDERSON COUNTY	35	4	-	-	5	9	1	-	1	-	-	-	1	1	-	3	5	1	3	-	1	-
1 TO 19 EMPLOYEES	19	3	-	-	1	7	1	-	1	-	-	-	-	-	-	1	3	-	2	-	-	-
20 TO 99 EMPLOYEES	11	1	-	-	3	2	-	-	-	-	-	-	-	1	-	1	2	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	-	-
HENRY COUNTY	41	4	-	-	3	12	1	-	1	1	1	1	-	3	-	1	8	2	3	-	-	-
1 TO 19 EMPLOYEES	24	3	-	-	2	9	-	-	-	1	-	-	-	2	-	-	5	-	2	-	-	-
20 TO 99 EMPLOYEES	9	1	-	-	-	2	1	-	1	-	1	-	-	1	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	2	1	1	-	-	-
HICKMAN COUNTY	20	-	-	1	2	11	-	-	1	-	-	-	1	1	1	-	-	-	-	-	2	-
1 TO 19 EMPLOYEES	10	-	-	-	-	8	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	7	-	-	1	1	3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
HOUSTON COUNTY	20	-	-	-	1	14	-	-	1	-	-	-	-	1	-	1	1	1	-	-	-	-
1 TO 19 EMPLOYEES	18	-	-	-	-	14	-	-	1	-	-	-	-	1	-	1	-	1	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
HUMPHREYS COUNTY	18	-	-	-	3	4	-	1	1	3	-	-	1	-	2	2	1	-	-	-	-	-
1 TO 19 EMPLOYEES	8	-	-	-	1	2	-	-	1	2	-	-	-	-	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	1	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-	-	-	-	-
JACKSON COUNTY	11	-	-	-	2	3	2	-	-	-	-	-	-	1	-	1	-	-	2	-	-	-
1 TO 19 EMPLOYEES	8	-	-	-	-	3	1	-	-	-	-	-	-	1	-	1	-	-	2	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JEFFERSON COUNTY	41	3	-	4	-	5	8	1	1	2	-	-	2	5	-	3	3	1	1	-	2	-
1 TO 19 EMPLOYEES	26	1	-	1	-	4	5	-	1	2	-	-	-	4	-	2	3	-	1	-	2	-
20 TO 99 EMPLOYEES	9	1	-	3	-	1	1	1	-	-	-	-	-	1	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	1	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-
JOHNSON COUNTY	18	1	-	1	3	9	-	-	1	-	-	-	1	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	12	1	-	-	1	8	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
KNOX COUNTY	396	42	-	10	32	18	17	7	76	15	7	11	4	26	2	32	33	10	9	8	30	7
1 TO 19 EMPLOYEES	249	17	-	6	11	12	14	4	62	11	5	4	4	14	1	19	25	6	5	7	18	4
20 TO 99 EMPLOYEES	93	12	-	2	7	6	2	2	13	3	2	3	-	8	-	9	6	2	2	1	10	3
100 TO 249 EMPLOYEES	30	9	-	1	5	-	1	1	-	-	-	4	-	4	-	3	1	-	-	-	1	-
250 EMPLOYEES AND OVER	24	4	-	1	9	-	-	-	1	1	-	-	-	-	1	1	1	2	2	-	1	-
LAKE COUNTY	10	2	-	-	5	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	1	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAUDERDALE COUNTY	35	-	-	-	8	7	1	1	3	-	-	2	-	-	2	6	2	2	1	-	-	-
1 TO 19 EMPLOYEES	18	-	-	-	3	6	-	-	2	-	-	-	-	-	1	3	2	1	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	3	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	-	1	1	-	-	1	-	-	-	-	-	1	2	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	1	-	-	-	-	-	-	1	-	-	-	1	-	1	1	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
LAWRENCE COUNTY	53	5	-	-	6	6	2	1	5	-	-	1	1	3	-	4	6	-	4	1	8	-
1 TO 19 EMPLOYEES	36	5	-	-	1	6	1	1	5	-	-	-	-	2	-	2	5	-	3	1	4	-
20 TO 99 EMPLOYEES	11	-	-	-	1	-	1	-	-	-	-	-	1	1	-	2	1	-	-	-	4	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
LEWIS COUNTY	24	3	-	-	2	12	-	-	1	-	-	1	1	1	1	-	1	-	-	-	-	1
1 TO 19 EMPLOYEES	18	3	-	-	1	10	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	1
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
LINCOLN COUNTY	35	10	-	2	4	4	3	-	1	1	-	-	-	2	1	1	2	1	1	-	1	1
1 TO 19 EMPLOYEES	23	7	-	-	1	4	2	-	1	1	-	-	-	2	1	1	1	1	1	-	-	-
20 TO 99 EMPLOYEES	6	3	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	3	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
LOUDON COUNTY	28	3	-	4	1	3	2	-	3	-	-	2	-	1	1	1	5	1	1	-	-	-
1 TO 19 EMPLOYEES	15	1	-	1	-	2	1	-	3	-	-	1	-	1	-	-	5	-	-	-	-	-
20 TO 99 EMPLOYEES	4	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	1	-	2	-	-	1	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	-	-	-
MC MINN COUNTY	87	4	-	11	15	16	13	2	3	4	1	3	-	2	-	1	6	4	1	-	-	1
1 TO 19 EMPLOYEES	44	3	-	2	3	14	7	1	2	2	1	1	-	1	-	1	4	1	1	-	-	-
20 TO 99 EMPLOYEES	18	-	-	5	5	1	4	-	1	-	-	1	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	14	-	-	4	4	1	1	-	-	1	-	1	-	-	-	-	2	-	-	-	-	-
250 EMPLOYEES AND OVER	11	1	-	-	3	-	1	1	-	1	-	-	-	-	-	-	-	3	-	-	-	1
MC NAIRY COUNTY	44	-	-	-	7	17	2	-	3	1	-	1	2	-	1	3	1	3	1	-	2	-
1 TO 19 EMPLOYEES	29	-	-	-	2	15	2	-	3	1	-	-	-	-	1	2	-	2	-	-	1	-
20 TO 99 EMPLOYEES	4	-	-	-	1	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	6	-	-	-	1	-	-	-	-	-	-	1	2	-	-	-	-	1	1	-	-	-
MACON COUNTY	38	2	-	-	5	22	1	-	2	1	-	-	-	1	-	-	1	1	1	-	1	-
1 TO 19 EMPLOYEES	26	2	-	-	-	18	-	-	2	1	-	-	-	1	-	-	-	1	-	-	1	-
20 TO 99 EMPLOYEES	6	-	-	-	1	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
MADISON COUNTY	102	16	-	1	5	20	3	6	11	3	1	3	-	10	1	3	10	-	2	-	7	-
1 TO 19 EMPLOYEES	54	5	-	-	2	10	1	-	10	2	1	2	-	6	-	2	6	-	1	-	6	-
20 TO 99 EMPLOYEES	28	6	-	-	1	9	1	3	-	1	-	1	-	2	-	1	2	-	1	-	-	-
100 TO 249 EMPLOYEES	11	2	-	-	1	1	1	2	1	-	-	-	-	1	-	-	1	-	-	-	1	-
250 EMPLOYEES AND OVER	9	3	-	1	1	-	-	1	-	-	-	-	-	1	1	-	1	-	-	-	-	-
MARION COUNTY	33	1	-	7	3	7	1	-	3	2	-	-	-	2	2	1	2	-	1	-	1	-
1 TO 19 EMPLOYEES	21	1	-	4	3	5	1	-	3	1	-	-	-	-	-	-	1	-	1	-	1	-
20 TO 99 EMPLOYEES	7	-	-	1	-	2	-	-	-	1	-	-	-	1	1	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
MARSHALL COUNTY	43	5	-	-	2	7	1	2	2	1	-	2	2	3	2	3	5	1	2	-	3	-
1 TO 19 EMPLOYEES	21	4	-	-	-	5	-	1	1	-	-	1	-	3	-	2	2	-	2	-	-	-
20 TO 99 EMPLOYEES	12	1	-	-	2	2	1	1	1	-	-	1	-	-	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	2	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	1	-	-	-	1	-
MAURY COUNTY	66	5	-	1	6	7	1	2	5	7	-	6	-	7	3	7	5	1	1	-	1	1
1 TO 19 EMPLOYEES	27	2	-	-	-	5	1	-	4	1	-	1	-	5	-	4	1	-	1	-	1	1
20 TO 99 EMPLOYEES	24	3	-	-	1	1	-	2	1	2	-	4	-	2	2	3	3	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	1	1	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	-	4	-	-	-	-	3	-	1	-	-	-	-	1	1	-	-	-	-
MEIGS COUNTY	13	-	-	1	2	2	3	1	-	1	-	1	1	-	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	9	-	-	-	1	2	2	1	-	1	-	1	-	-	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes st end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
MONROE COUNTY	62	4	-	4	10	25	3	1	5	-	-	-	-	5	1	1	-	1	2	-	-	-
1 TO 19 EMPLOYEES	43	2	-	2	4	23	1	1	4	-	-	-	-	3	-	1	-	1	1	-	-	-
20 TO 99 EMPLOYEES	10	1	-	-	2	2	1	-	1	-	-	-	-	2	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	7	1	-	2	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
MONTGOMERY COUNTY	60	6	3	-	3	11	-	1	9	-	-	2	2	3	2	6	6	1	-	1	2	2
1 TO 19 EMPLOYEES	37	4	1	-	2	8	-	-	7	-	-	1	-	2	2	2	4	1	-	1	2	-
20 TO 99 EMPLOYEES	12	1	2	-	-	1	-	1	-	-	-	-	-	1	-	4	1	-	-	-	-	1
100 TO 249 EMPLOYEES	4	-	-	-	1	2	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	7	1	-	-	-	-	-	-	1	-	-	1	2	-	-	-	-	-	-	-	-	1
MOORE COUNTY	4	2	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORGAN COUNTY	12	-	-	1	3	6	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
1 TO 19 EMPLOYEES	7	-	-	-	-	5	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OBION COUNTY	45	8	-	-	5	9	-	-	3	-	-	5	1	1	2	4	5	-	2	-	-	-
1 TO 19 EMPLOYEES	26	5	-	-	2	6	-	-	2	-	-	1	-	1	1	2	5	-	1	-	-	-
20 TO 99 EMPLOYEES	11	2	-	-	-	3	-	-	1	-	-	3	-	-	-	1	-	-	1	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	1	-	-	2	-	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-
OVERTON COUNTY	30	1	-	-	3	10	5	-	3	-	-	-	-	4	-	-	3	-	1	-	-	-
1 TO 19 EMPLOYEES	22	-	-	-	-	8	3	-	3	-	-	-	-	4	-	-	3	-	1	-	-	-
20 TO 99 EMPLOYEES	5	1	-	-	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PERRY COUNTY	24	-	-	-	2	14	-	-	2	-	-	3	-	-	-	-	2	-	1	-	-	-
1 TO 19 EMPLOYEES	16	-	-	-	-	12	-	-	2	-	-	1	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	2	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
PICKETT COUNTY	9	-	-	-	3	4	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
POLK COUNTY	15	-	-	2	2	6	2	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	10	-	-	1	-	5	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
PUTNAM COUNTY	115	8	-	1	9	21	15	1	6	3	-	5	1	6	1	7	14	4	4	2	7	-
1 TO 19 EMPLOYEES	73	5	-	1	3	18	7	1	5	2	-	2	-	5	1	4	11	2	1	2	3	-
20 TO 99 EMPLOYEES	25	3	-	-	1	2	4	-	1	1	-	3	-	1	-	3	3	-	1	-	2	-
100 TO 249 EMPLOYEES	10	-	-	-	3	1	4	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-
250 EMPLOYEES AND OVER	7	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	2	1	-	1	-
RHEA COUNTY	35	1	-	5	6	7	1	1	5	1	-	1	-	2	-	1	3	1	-	-	-	-
1 TO 19 EMPLOYEES	20	1	-	1	1	6	-	1	5	-	-	1	-	2	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	3	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	2	1	-	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-
ROANE COUNTY	37	3	-	3	3	6	2	1	7	2	-	-	-	4	2	-	1	1	-	-	2	-
1 TO 19 EMPLOYEES	21	2	-	-	1	4	2	-	6	-	-	-	-	2	-	-	1	1	-	-	2	-
20 TO 99 EMPLOYEES	7	1	-	-	-	2	-	-	1	1	-	-	-	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	3	1	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-
ROBERTSON COUNTY	45	5	1	-	1	4	9	1	2	-	1	2	4	-	1	4	5	2	-	-	2	1
1 TO 19 EMPLOYEES	25	3	-	-	1	4	5	-	2	-	-	1	-	-	1	4	3	-	-	-	1	-
20 TO 99 EMPLOYEES	10	2	-	-	-	-	2	-	-	-	1	-	2	-	-	-	2	-	-	-	-	1
100 TO 249 EMPLOYEES	7	-	1	-	-	-	1	1	-	-	-	1	1	-	-	-	-	1	-	-	1	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
RUTHERFORD COUNTY	114	10	-	-	2	8	2	5	17	1	-	6	1	7	4	14	12	6	11	1	6	1
1 TO 19 EMPLOYEES	70	6	-	-	1	7	-	2	14	-	-	2	1	4	1	11	8	3	6	-	4	-
20 TO 99 EMPLOYEES	25	3	-	-	-	1	-	-	3	1	-	3	-	3	2	1	3	-	4	1	-	-
100 TO 249 EMPLOYEES	9	-	-	-	-	-	1	2	-	-	-	-	-	-	1	1	1	1	1	-	1	-
250 EMPLOYEES AND OVER	10	1	-	-	1	-	1	1	-	-	-	1	-	-	-	1	-	2	-	-	1	1
SCOTT COUNTY	31	-	-	-	1	16	-	-	3	-	-	1	1	4	-	1	4	-	-	-	-	-
1 TO 19 EMPLOYEES	23	-	-	-	-	12	-	-	3	-	-	-	-	4	-	1	3	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	1	3	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
SEQUATCHIE COUNTY	14	-	-	1	5	4	1	-	-	-	1	-	-	-	-	-	-	1	-	-	1	-
1 TO 19 EMPLOYEES	7	-	-	1	1	4	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-
100 TO 249 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEVIER COUNTY	51	5	-	1	1	7	6	-	5	1	-	1	2	5	1	2	1	2	1	-	10	-
1 TO 19 EMPLOYEES	40	4	-	-	-	6	6	-	4	-	-	1	2	3	-	2	1	1	-	-	10	-
20 TO 99 EMPLOYEES	7	1	-	-	-	1	-	-	1	1	-	-	-	2	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
SHELBY COUNTY	1019	86	1	8	28	80	52	33	159	73	15	31	2	41	16	126	94	36	28	14	53	43
1 TO 19 EMPLOYEES	617	25	-	4	13	46	33	5	137	39	10	19	-	26	8	71	71	24	20	9	37	20
20 TO 99 EMPLOYEES	268	31	-	3	8	26	12	15	18	22	3	8	1	14	4	40	19	7	3	4	12	18
100 TO 249 EMPLOYEES	89	20	1	-	5	7	5	8	3	7	1	3	-	1	4	13	-	3	3	-	2	3
250 EMPLOYEES AND OVER	45	10	-	1	2	1	2	5	1	5	1	1	1	-	-	2	4	2	2	1	2	2
SMITH COUNTY	16	-	-	-	3	5	2	-	2	-	-	-	1	-	1	-	1	1	-	-	-	-
1 TO 19 EMPLOYEES	9	-	-	-	-	5	1	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-
STEWART COUNTY	15	-	-	-	1	12	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	14	-	-	-	-	12	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SULLIVAN COUNTY	122	12	-	2	10	9	1	3	24	7	-	3	2	12	7	11	8	2	2	4	2	1
1 TO 19 EMPLOYEES	75	7	-	-	2	7	-	-	19	3	-	3	-	8	4	7	7	2	1	3	2	-
20 TO 99 EMPLOYEES	18	2	-	-	2	1	1	1	3	-	-	-	2	1	1	3	-	-	-	1	-	-
100 TO 249 EMPLOYEES	15	3	-	-	5	1	-	1	-	-	-	-	-	2	1	-	-	-	1	-	-	1
250 EMPLOYEES AND OVER	14	-	-	2	1	-	-	1	2	4	-	-	-	1	1	1	1	-	-	-	-	-
SUMNER COUNTY	129	6	1	-	7	11	6	4	18	2	1	2	1	6	4	13	27	10	5	1	4	-
1 TO 19 EMPLOYEES	93	3	-	-	2	9	2	3	15	2	1	1	-	4	3	8	25	7	3	1	4	-
20 TO 99 EMPLOYEES	19	2	-	-	2	-	1	1	2	-	-	1	-	2	1	2	2	2	1	-	-	-
100 TO 249 EMPLOYEES	12	1	1	-	3	2	2	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-	-	1	1	-	-	-
TIPTON COUNTY	22	4	-	-	1	1	1	1	2	-	-	1	-	5	1	2	1	-	-	-	2	-
1 TO 19 EMPLOYEES	13	1	-	-	-	1	-	-	1	-	-	1	-	4	-	2	1	-	-	-	2	-
20 TO 99 EMPLOYEES	5	2	-	-	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TROUSDALE COUNTY	8	-	-	-	3	1	1	1	-	-	-	-	1	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
UNICOI COUNTY	20	-	-	-	1	8	-	-	1	1	-	1	-	1	-	1	2	4	-	-	-	-
1 TO 19 EMPLOYEES	13	-	-	-	-	8	-	-	1	-	-	-	-	1	-	-	1	2	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
UNION COUNTY	9	-	-	-	1	-	4	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	-	2	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
VAN BUREN COUNTY	10	-	-	1	3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WARREN COUNTY	62	8	-	1	3	16	2	-	4	-	-	1	1	2	-	5	12	2	2	-	1	2
1 TO 19 EMPLOYEES	41	6	-	-	-	11	2	-	3	-	-	1	-	1	-	3	9	-	2	-	1	2
20 TO 99 EMPLOYEES	10	2	-	-	-	4	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	8	-	-	1	1	-	-	-	-	-	-	-	1	-	-	1	2	2	-	-	-	-
WASHINGTON COUNTY	113	15	-	4	9	13	7	1	11	3	-	6	1	7	3	9	8	5	1	3	4	3
1 TO 19 EMPLOYEES	64	9	-	-	4	11	4	1	10	1	-	3	1	3	1	4	5	1	-	2	3	1
20 TO 99 EMPLOYEES	23	3	-	2	1	1	-	-	-	2	-	1	-	3	-	4	2	1	1	-	-	2
100 TO 249 EMPLOYEES	13	2	-	-	1	1	-	-	1	-	-	2	-	1	2	1	1	-	-	-	1	-
250 EMPLOYEES AND OVER	13	1	-	2	3	-	3	-	-	-	-	-	-	-	-	-	-	3	-	1	-	-
WAYNE COUNTY	24	-	-	-	3	13	1	-	2	-	-	-	1	1	-	-	-	2	-	1	-	-
1 TO 19 EMPLOYEES	16	-	-	-	-	11	1	-	2	-	-	-	-	1	-	-	-	-	-	1	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-
WEAKLEY COUNTY	42	3	-	1	5	11	-	-	3	-	-	1	1	4	1	2	5	3	-	-	1	1
1 TO 19 EMPLOYEES	26	2	-	1	1	8	-	-	2	-	-	1	-	3	1	-	5	-	-	-	1	1
20 TO 99 EMPLOYEES	6	1	-	-	-	2	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	3	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
WHITE COUNTY	34	-	-	-	8	14	2	-	3	-	-	1	-	1	-	-	1	3	-	-	-	1
1 TO 19 EMPLOYEES	16	-	-	-	1	9	1	-	3	-	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	1	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	6	-	-	-	5	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
WILLIAMSON COUNTY	58	2	-	-	1	7	4	2	11	2	-	4	1	3	2	3	6	6	-	-	1	3
1 TO 19 EMPLOYEES	42	2	-	-	1	6	3	1	10	2	-	2	-	1	2	2	5	3	-	-	1	1
20 TO 99 EMPLOYEES	6	-	-	-	-	1	-	-	-	-	-	1	-	2	-	-	1	-	-	-	-	1
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	2	-	-	-	1
250 EMPLOYEES AND OVER	5	-	-	-	-	-	1	1	-	-	-	-	1	-	-	1	-	1	-	-	-	-
WILSON COUNTY	68	6	-	1	4	7	1	3	5	-	-	5	2	6	1	7	10	-	4	1	5	-
1 TO 19 EMPLOYEES	39	3	-	-	1	5	1	-	3	-	-	5	-	4	1	4	6	-	2	-	4	-
20 TO 99 EMPLOYEES	20	2	-	-	1	2	-	3	2	-	-	-	-	1	-	3	4	-	1	-	1	-
100 TO 249 EMPLOYEES	4	1	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1	1	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

Texas

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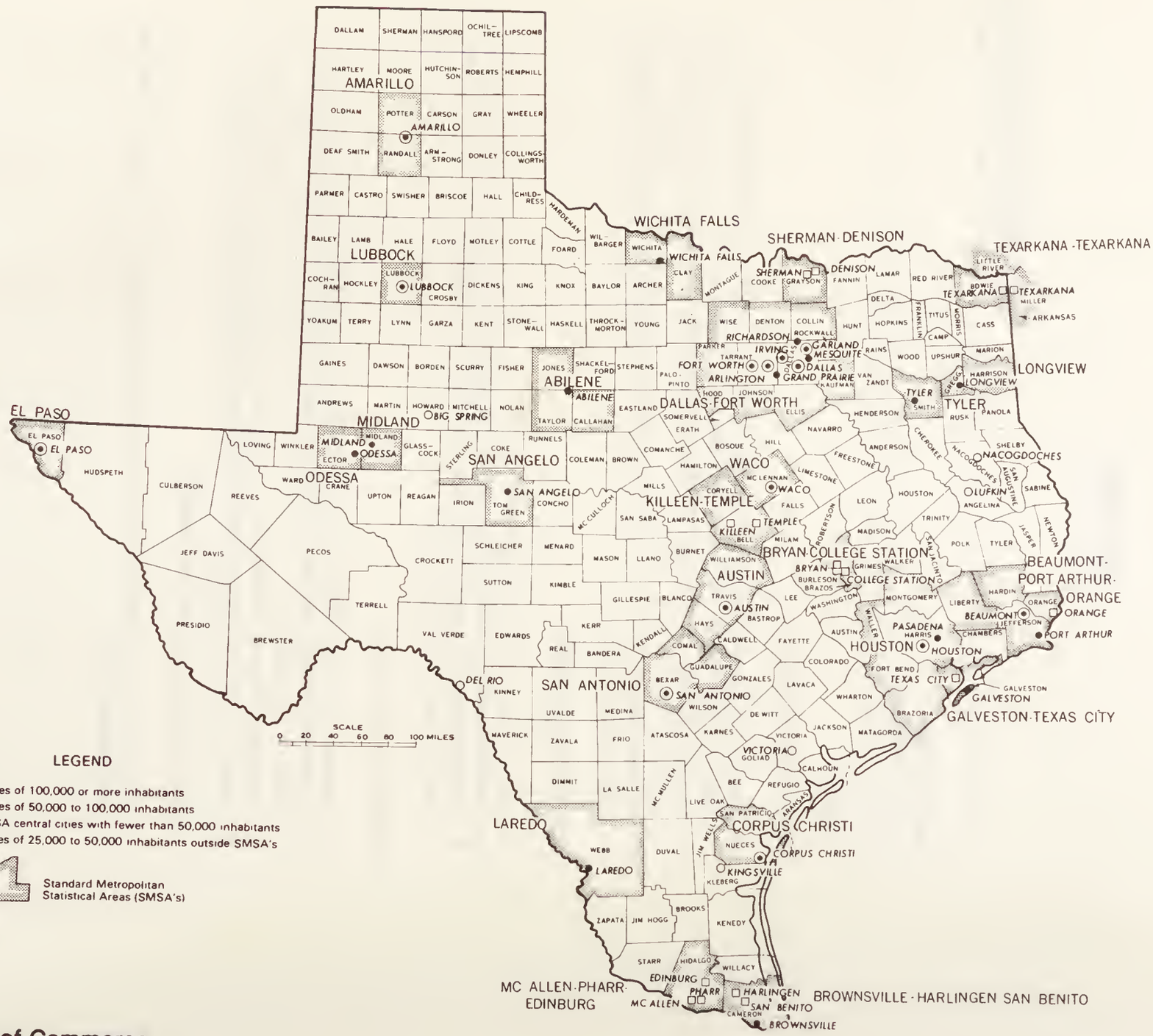
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TEXAS



U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 886.4 thousand persons were employed in Texas' manufacturing establishments. This figure represented an increase of 20 percent from the 1972 figure of 736.1 thousand workers.

The total value added by manufacture for the State amounted to $33,080 million in 1977, an increase of approximately 117 percent from the 1972 figure of $15,228 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were machinery, except electrical; food and kindred products; fabricated metal products; and electric and electronic equipment. They accounted for approximately 39 percent of the State's 1977 employment. The order has shifted from 1972 when industry groups food and kindred products; machinery, except electrical; transportation equipment; and fabricated metal products accounted for approximately 38 percent of the State's employment.

The most important counties in the State ranked by employment were Harris, Dallas, Tarrant, and Bexar. They accounted for approximately 54 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Dallas, Harris, Tarrant, and Bexar accounted for approximately 52 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Texas:						
1977	886.4	11,653.1	841.5	10,735.9	44.9	917.2
1972	736.1	6,344.6	708.2	5,949.8	27.9	394.8
1967	657.5	4,340.4	636.8	4,130.8	20.7	209.6
1963	513.8	2,890.5	499.4	2,765.4	14.4	125.1
STANDARD CONSOLIDATED STATISTICAL AREA						
Houston-Galveston:						
1977	221.3	3,568.8	197.7	3,027.1	23.7	541.7
1972	173.6	1,816.0	161.8	1,580.3	11.8	176.6
STANDARD METROPOLITAN STATISTICAL AREAS						
Abilene:						
1977	5.8	51.4	5.7	50.4	.1	1.0
1972	5.2	32.2	(D)	(D)	(D)	(D)
1967	4.0	21.0	(D)	(D)	(D)	(D)
1963	3.4	14.2	(D)	(D)	(D)	(D)
Amarillo:						
1977	7.7	94.0	7.2	84.5	.5	9.5
1972	5.4	38.8	5.0	33.3	.4	5.5
1967	4.5	26.9	4.1	23.6	.4	3.3
1963	4.0	22.0	(D)	(D)	(D)	(D)
Austin:						
1977	20.7	259.0	20.3	253.6	.4	5.4
1972	14.0	101.3	12.4	98.0	.3	3.3
1967	7.0	34.9	(D)	(D)	(D)	(D)
1963	5.9	25.8	(D)	(D)	(D)	(D)
Beaumont-Port Arthur-Orange:						
1977	38.3	683.3	37.8	672.9	.5	10.4
1972	37.6	418.1	37.1	409.6	.5	8.5
1967	33.2	273.4	32.4	265.0	.8	8.4
1963	32.8	233.9	32.3	229.1	.5	4.8
Brownsville-Harlingen-San Benito:						
1977	9.0	74.3	8.8	71.8	.2	2.5
1972	6.9	39.4	(D)	(D)	(D)	(D)
1967	5.4	19.3	(D)	(D)	(D)	(D)
1963	4.8	14.9	4.8	14.9	-	-
Bryan-College Station:						
1977	2.1	22.2	(D)	(D)	(D)	(D)
1972	2.0	13.0	(D)	(D)	(D)	(D)
Corpus Christi:						
1977	12.1	178.6	11.9	173.7	.2	4.9
1972	10.9	102.9	10.7	98.9	.2	4.0
1967	10.0	73.2	9.7	69.8	.3	3.4
1963	7.8	46.6	(D)	(D)	(D)	(D)
Dallas-Fort Worth:						
1977	269.9	3,508.9	253.9	3,219.2	16.0	289.7
1972	230.0	2,022.5	220.9	1,911.8	9.3	110.7
1967	227.3	1,579.5	221.2	1,523.0	6.1	56.5
1963	156.9	915.6	(D)	(D)	(D)	(D)
El Paso:						
1977	29.1	251.5	28.1	234.2	1.0	17.3
1972	26.0	157.7	25.8	155.5	.2	2.2
1967	18.9	85.1	18.9	84.9	(Z)	.2
1963	14.9	62.0	(D)	(D)	(D)	(D)
Galveston-Texas City:						
1977	11.3	206.1	11.3	205.8	(Z)	.3
1972	10.9	124.3	10.6	119.8	.3	4.5
1967	10.1	88.4	9.7	84.1	.4	4.3
1963	9.5	71.6	(D)	(D)	(D)	(D)
Houston:						
1977	210.1	3,362.7	186.4	2,821.3	23.7	541.4
1972	162.7	1,691.7	151.2	1,519.6	11.5	172.1
1967	138.1	1,061.8	126.9	941.9	11.2	119.9
1963	108.6	720.3	102.5	661.9	6.1	58.4
Kileen-Temple:						
1977	5.8	55.3	5.8	54.9	(Z)	.4
1972	5.1	33.8	5.1	33.5	(Z)	.3

See footnotes at end of table.

Table 1. **Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years**—Con.

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
STANDARD METROPOLITAN STATISTICAL AREAS--Con.						
Laredo:						
1977	1.5	11.9	(D)	(D)	(D)	(D)
1972	1.2	6.4	(D)	(D)	(D)	(D)
1967	.7	2.7	.7	2.7	-	-
1963	.9	2.7	.9	2.7	-	-
Longview:						
1977	15.9	206.3	15.9	205.8	(Z)	.5
1972	13.9	128.8	(NA)	(NA)	(NA)	(NA)
Lubbock:						
1977	12.9	137.8	12.8	137.1	.1	.7
1972	7.1	50.6	(D)	(D)	(D)	(D)
1967	6.0	32.2	(D)	(D)	(D)	(D)
1963	5.4	25.4	(D)	(D)	(D)	(D)
McAllen-Pharr-Edinburg:						
1977	5.5	41.1	5.4	40.2	.1	.9
1972	3.1	15.6	(D)	(D)	(D)	(D)
1967	2.4	9.3	(D)	(D)	(D)	(D)
Midland:						
1977	2.0	23.4	1.7	18.6	.3	4.8
1972	1.4	10.3	1.2	8.5	.2	1.8
1967	.7	4.4	(D)	(D)	(D)	(D)
1963	.5	3.7	(D)	(D)	(D)	(D)
Odessa:						
1977	5.9	86.7	5.4	76.3	.5	10.4
1972	4.0	37.2	3.5	31.5	.5	5.7
1967	3.4	25.7	(D)	(D)	(D)	(D)
1963	2.2	13.5	(D)	(D)	(D)	(D)
San Angelo:						
1977	4.8	42.6	4.8	42.3	(Z)	.3
1972	3.5	22.4	(D)	(D)	(D)	(D)
1967	3.2	15.6	(D)	(D)	(D)	(D)
1963	2.0	7.8	2.0	7.8	-	-
San Antonio:						
1977	40.1	399.2	39.1	381.5	1.0	17.7
1972	34.9	229.7	34.6	224.7	.3	5.0
1967	27.4	142.9	(D)	(D)	(D)	(D)
1963	23.6	102.4	(D)	(D)	(D)	(D)
Sherman-Denison:						
1977	10.5	120.1	10.5	119.5	(Z)	.6
1972	8.3	59.7	8.2	59.7	-	-
1967	6.7	33.2	(D)	(D)	(D)	(D)
Texarkana, Tex.-Texarkana, Ark.:						
1977	7.7	87.5	7.7	87.5	-	-
1972	9.0	66.6	9.0	66.6	-	-
Tyler:						
1977	12.1	144.6	12.1	144.4	(Z)	.2
1972	12.0	95.1	(D)	(D)	(D)	(D)
1967	8.8	48.9	8.8	48.9	-	-
1963	7.2	34.1	7.2	34.1	-	-
Waco:						
1977	14.8	154.7	14.5	151.3	.3	3.4
1972	12.5	87.5	(D)	(D)	(D)	(D)
1967	11.0	66.0	(D)	(D)	(D)	(D)
1963	9.5	47.9	(D)	(D)	(D)	(D)
Wichita Falls:						
1977	7.9	84.5	7.9	84.2	(Z)	.3
1972	5.0	32.6	(D)	(D)	(D)	(D)
1967	3.6	17.6	(D)	(D)	(D)	(D)
1963	3.2	14.9	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
								TEXAS							
1977 CENSUS.	18 107	5 644	886.4	11 653.1	600.7	1 190.1	6 626.4	33 080.9	60 395.8	92 735.7	5 194.7	4.52	100	100	19 596.9
1976 ASM....	(NA)	(NA)	824.6	9 852.0	560.3	1 113.6	5 661.1	27 600.0	49 990.5	77 120.1	4 768.1	4.40	93	96	18 753.0
1975 ASM....	(NA)	(NA)	776.7	8 656.1	529.9	1 055.6	4 960.3	24 786.1	41 427.0	65 458.0	3 804.6	4.24	88	94	18 302.2
1974 ASM....	(NA)	(NA)	803.9	8 084.8	562.7	1 123.9	4 741.1	23 398.9	36 849.0	58 948.6	3 035.9	4.05	91	102	19 844.8
1973 ASM....	(NA)	(NA)	786.6	7 065.7	560.2	1 108.7	4 277.4	17 688.0	25 544.9	42 982.3	1 534.0	3.95	89	102	19 897.9
1972 CENSUS.	14 422	4 790	736.1	6 344.6	516.6	1 030.5	3 763.3	15 228.0	21 355.5	36 647.9	1 345.7	3.87	83	98	19 028.7
1971 ASM....	(NA)	(NA)	694.0	5 689.8	480.3	955.5	3 300.5	13 793.9	19 289.8	33 034.2	1 506.3	3.78	78	94	18 363.1
1970 ASM....	(NA)	(NA)	722.5	5 584.4	503.4	1 011.3	3 286.5	13 094.8	18 433.0	31 291.1	1 619.1	3.76	82	99	19 217.2
1969 ASM....	(NA)	(NA)	728.3	5 327.3	515.0	1 051.7	3 222.8	12 922.9	18 520.0	31 308.1	1 490.3	3.64	82	103	20 035.5
1968 ASM....	(NA)	(NA)	688.8	4 875.4	486.0	1 003.8	2 948.5	11 974.5	17 515.9	29 376.0	1 490.2	3.53	78	100	19 527.6
1967 CENSUS.	12 722	4 039	657.5	4 340.4	466.4	958.5	2 617.0	10 922.4	15 785.0	26 498.1	1 408.8	3.40	74	99	19 323.2
1966 ASM....	(NA)	(NA)	607.6	3 773.5	430.9	899.9	2 313.4	9 725.4	14 276.6	23 824.1	1 215.8	3.19	69	98	19 024.5
1965 ASM....	(NA)	(NA)	566.9	3 365.1	400.7	832.6	2 065.2	8 700.2	12 790.6	21 330.1	1 006.2	3.15	64	92	18 010.2
1964 ASM....	(NA)	(NA)	535.9	3 130.5	375.9	782.5	1 894.6	7 864.8	11 603.9	19 350.9	745.6	3.10	60	89	17 268.5
1963 CENSUS.	11 581	3 478	513.8	2 890.5	361.4	741.4	1 744.0	7 119.5	(NA)	(NA)	567.3	3.03	58	87	16 958.4
								HOUSTON-GALVESTON SCSA							
1977 CENSUS.	4 211	1 386	221.3	3 568.8	134.5	273.9	1 860.9	11 305.1	22 553.3	33 565.6	2 576.7	1.13	100	100	19 596.9
1972 CENSUS.	3 278	1 102	173.6	1 816.0	110.6	222.5	965.0	4 867.0	6 812.5	11 638.7	475.5	.90	77	98	19 028.7
								DALLAS-FORT WORTH SMSA							
1977 CENSUS.	5 505	1 750	269.9	3 508.9	171.7	339.8	1 814.4	7 869.1	8 460.5	16 116.9	500.8	1.38	100	100	19 596.9
1976 ASM....	(NA)	(NA)	258.7	3 024.1	164.4	327.8	1 569.7	6 849.1	7 510.8	14 257.6	398.9	1.38	96	96	18 753.0
1975 ASM....	(NA)	(NA)	239.9	2 660.7	152.5	309.5	1 375.8	5 643.7	6 605.5	12 064.3	356.5	1.31	89	94	18 302.2
1974 ASM....	(NA)	(NA)	252.8	2 544.0	166.5	331.9	1 378.1	5 194.6	5 955.9	10 892.5	333.5	1.27	94	102	19 844.8
1973 ASM....	(NA)	(NA)	250.0	2 307.9	169.6	335.7	1 292.6	4 569.6	5 181.4	9 740.3	261.7	1.26	93	102	19 897.9
1972 CENSUS.	4 231	1 495	230.0	2 023.5	152.4	302.7	1 119.1	4 075.7	4 338.6	8 496.8	213.6	1.21	85	98	19 028.7
1971 ASM....	(NA)	(NA)	227.3	1 903.5	146.5	294.5	1 008.1	3 655.5	4 185.9	7 918.5	192.8	1.24	84	94	18 363.1
1970 ASM....	(NA)	(NA)	255.3	2 032.4	168.1	337.0	1 105.4	3 856.1	4 353.3	8 138.4	196.0	1.33	95	99	19 217.2
1969 ASM....	(NA)	(NA)	262.3	2 021.8	177.0	370.0	1 149.3	3 787.9	4 473.4	8 257.2	244.8	1.31	97	103	20 035.5
1968 ASM....	(NA)	(NA)	249.5	1 844.6	168.3	356.1	1 056.3	3 528.0	4 555.7	8 045.3	198.0	1.28	92	100	19 527.6
1967 CENSUS.	3 485	2 151	227.3	1 579.5	155.7	329.1	899.8	3 011.5	3 820.2	6 799.4	234.9	1.18	84	99	19 323.2
1966 ASM....	(NA)	(NA)	204.0	1 325.8	138.1	295.0	749.7	2 567.9	3 263.9	5 761.3	181.8	1.07	76	98	19 024.5
1965 ASM....	(NA)	(NA)	181.9	1 120.8	120.6	256.1	622.8	2 216.6	2 749.1	4 927.1	140.0	1.01	67	92	18 010.2
1964 ASM....	(NA)	(NA)	169.2	1 028.8	110.4	236.0	561.7	2 021.8	2 365.8	4 380.3	109.6	.98	63	89	17 268.5
1963 CENSUS.	3 057	1 044	156.9	915.6	103.8	219.1	500.8	(D)	(NA)	(NA)	106.1	.93	58	87	16 958.4
								HOUSTON SMSA							
1977 CENSUS.	4 081	1 342	210.1	3 362.7	126.5	257.4	1 718.7	9 844.4	18 247.0	27 888.0	2 451.5	1.07	100	100	19 596.9
1976 ASM....	(NA)	(NA)	187.0	2 775.8	113.1	233.8	1 439.0	8 047.3	15 110.7	22 887.6	2 351.8	1.00	89	96	18 753.0
1975 ASM....	(NA)	(NA)	183.0	2 523.1	112.5	234.0	1 320.2	7 302.6	12 708.8	19 763.0	1 763.0	1.00	87	94	18 302.2
1974 ASM....	(NA)	(NA)	178.2	2 246.2	112.1	236.2	1 176.4	7 101.3	11 534.1	18 157.1	1 255.0	.90	85	102	19 844.8
1973 ASM....	(NA)	(NA)	170.6	1 834.9	109.5	217.0	1 004.6	4 797.2	6 939.2	11 671.2	530.3	.86	81	102	19 897.9
1972 CENSUS.	3 170	1 063	162.7	1 691.7	102.8	206.2	881.5	4 179.4	5 769.3	9 902.0	441.6	.86	77	98	19 028.7
1971 ASM....	(NA)	(NA)	152.8	1 512.3	94.7	190.8	786.1	3 783.6	5 219.7	8 958.8	600.6	.83	73	94	18 363.1
1970 ASM....	(NA)	(NA)	152.6	1 389.6	97.0	199.5	757.2	3 460.1	4 788.2	8 170.9	732.4	.79	73	99	19 217.2
1969 ASM....	(NA)	(NA)	146.5	1 224.2	96.3	197.5	696.8	3 393.9	4 438.6	7 764.1	567.7	.73	70	103	20 035.5
1968 ASM....	(NA)	(NA)	141.5	1 150.6	92.0	191.1	644.4	3 200.2	4 160.0	7 345.4	561.9	.72	67	100	19 527.6
1967 CENSUS.	2 621	892	138.1	1 061.8	88.4	184.8	586.1	2 873.0	3 923.5	6 739.8	499.1	.71	66	99	19 323.2
1966 ASM....	(NA)	(NA)	119.2	869.9	77.9	164.5	502.6	2 496.6	3 605.6	6 084.7	398.5	.63	57	98	19 024.5
1965 ASM....	(NA)	(NA)	115.8	807.8	77.4	162.9	473.1	2 292.8	3 290.1	5 532.8	359.3	.64	55	92	18 010.2
1964 ASM....	(NA)	(NA)	113.6	774.4	74.3	156.9	444.1	2 135.0	3 065.1	5 173.3	230.5	.66	54	89	17 268.5
1963 CENSUS.	2 261	727	108.6	720.3	70.3	145.4	403.8	1 918.4	(NA)	(NA)	160.2	.64	52	87	16 958.4
								SAN ANTONIO SMSA							
1977 CENSUS.	944	286	40.1	399.2	28.7	55.7	231.8	905.3	1 130.8	2 017.7	92.5	.21	100	100	19 596.9
1976 ASM....	(NA)	(NA)	36.0	338.7	24.9	49.8	198.6	803.2	1 030.7	1 825.5	70.9	.19	90	96	18 753.0
1975 ASM....	(NA)	(NA)	33.4	292.1	22.7	46.8	166.4	688.7	898.1	1 590.1	75.9	.18	83	94	18 302.2
1974 ASM....	(NA)	(NA)	38.9	297.3	27.0	54.9	174.4	661.0	837.5	1 471.0	53.2	.20	97	102	19 844.8
1973 ASM....	(NA)	(NA)	36.3	250.8	26.3	51.9	151.7	519.5	613.1	1 122.3	44.2	.18	90	102	19 897.9
1972 CENSUS.	751	261	34.9	229.7	25.3	50.7	142.3	482.0	529.3	1 003.0	27.8	.18	87	98	19 028.7

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
TEXAS									
1977 CENSUS	13 147	68	1 981	5.57	65	78	37 322	35	27.80
1976 ASM	11 948	68	1 988	5.08	65	78	33 471	36	24.78
1975 ASM	11 145	68	1 992	4.70	63	77	31 912	35	23.48
1974 ASM	10 057	70	1 997	4.22	63	76	29 107	35	20.82
1973 ASM	8 983	71	1 979	3.86	59	76	22 487	40	15.95
1972 CENSUS	8 619	70	1 995	3.65	58	76	20 687	42	14.78
1971 ASM	8 199	69	1 989	3.45	58	76	19 876	41	14.44
1970 ASM	7 729	70	2 009	3.25	59	77	18 124	43	12.95
1969 ASM	7 315	71	2 042	3.06	59	76	17 744	41	12.29
1968 ASM	7 078	71	2 065	2.94	60	76	17 385	41	11.93
1967 CENSUS	6 601	71	2 055	2.73	60	76	16 612	40	11.40
1966 ASM	6 211	71	2 088	2.57	60	76	16 006	39	10.81
1965 ASM	5 936	71	2 078	2.48	60	76	15 347	39	10.45
1964 ASM	5 842	70	2 082	2.42	60	76	14 676	40	10.05
1963 CENSUS	5 626	70	2 051	2.35	(NA)	(NA)	13 857	41	9.60
HOUSTON-GALVESTON SCSA									
1977 CENSUS	16 124	61	2 036	6.79	67	78	51 077	32	41.27
1972 CENSUS	10 460	64	2 012	4.34	59	74	28 036	37	21.87
DALLAS-FORT WORTH SMSA									
1977 CENSUS	13 001	64	1 979	5.34	52	74	29 155	45	23.16
1976 ASM	11 690	64	1 994	4.79	53	74	26 475	44	20.89
1975 ASM	11 091	64	2 030	4.45	55	77	23 525	47	18.23
1974 ASM	10 063	66	1 993	4.15	55	78	20 548	49	15.65
1973 ASM	9 232	68	1 979	3.85	53	77	18 278	51	13.61
1972 CENSUS	8 798	66	1 986	3.70	51	75	17 720	50	13.46
1971 ASM	8 374	64	2 010	3.42	53	77	16 082	52	12.41
1970 ASM	7 961	66	2 005	3.28	53	78	15 104	53	11.44
1969 ASM	7 708	67	2 090	3.11	54	79	14 441	53	10.24
1968 ASM	7 393	67	2 116	2.97	57	80	14 140	52	9.91
1967 CENSUS	6 949	68	2 114	2.73	56	79	13 249	52	9.15
1966 ASM	6 499	68	2 136	2.54	57	80	12 588	52	8.70
1965 ASM	6 162	66	2 124	2.43	56	79	12 186	51	8.66
1964 ASM	6 080	65	2 138	2.38	54	77	11 949	51	8.57
1963 CENSUS	5 836	66	2 111	2.29	(NA)	(NA)	(D)	(D)	(D)
HOUSTON SMSA									
1977 CENSUS	16 008	60	2 035	6.68	65	77	46 865	34	38.24
1976 ASM	14 844	60	2 067	6.15	66	78	43 034	34	34.42
1975 ASM	13 787	61	2 080	5.64	64	77	39 905	35	31.21
1974 ASM	12 605	63	2 107	4.98	64	76	39 850	32	30.06
1973 ASM	10 756	64	1 982	4.63	59	75	28 120	38	22.11
1972 CENSUS	10 398	63	2 006	4.27	58	75	25 688	40	20.27
1971 ASM	9 897	62	2 015	4.12	58	75	24 762	40	19.83
1970 ASM	9 106	64	2 057	3.80	59	76	22 674	40	17.34
1969 ASM	8 356	66	2 051	3.53	57	73	23 167	36	17.18
1968 ASM	8 131	65	2 077	3.37	57	72	22 616	36	16.75
1967 CENSUS	7 689	64	2 090	3.17	58	74	20 804	37	15.55
1966 ASM	7 298	65	2 112	3.06	59	74	20 945	35	15.18
1965 ASM	6 976	67	2 105	2.90	59	74	19 800	35	14.07
1964 ASM	6 817	65	2 112	2.83	59	74	18 794	36	13.61
1963 CENSUS	6 633	65	2 068	2.78	(NA)	(NA)	17 665	38	13.19
SAN ANTONIO SMSA									
1977 CENSUS	9 943	71	1 941	4.16	56	76	22 551	44	16.26
1976 ASM	9 408	69	2 000	3.99	56	75	22 311	42	16.13
1975 ASM	8 746	68	2 062	3.56	56	75	20 620	42	14.72
1974 ASM	7 643	69	2 033	3.18	57	77	16 992	45	12.04
1973 ASM	6 909	72	1 973	2.92	55	77	14 311	48	10.01
1972 CENSUS	6 582	72	2 004	2.81	53	76	13 811	48	9.51

Note: For qualifications to data, see footnotes on table 2a.
(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	18 107	14 422
With 1 to 19 employees	do	12 463	9 632
With 20 to 99 employees	do	3 875	3 296
With 100 employees or more	do	1 769	1 494
All employees, average for year[1]	1,000	886.4	735.6
Payroll for year, all employees[1]	mil. dollars	11 653.1	6 340.0
Production workers:			
Average for year	1,000	600.7	516.4
March	do	584.3	506.3
May	do	595.2	514.3
August	do	604.9	518.7
November	do	616.2	526.4
Hours	millions	1 190.1	1 030.1
January to March	do	286.6	250.5
April to June	do	297.3	259.6
July to September	do	302.1	257.1
October to December	do	304.1	262.9
Wages	mil. dollars	6 626.4	3 762.0
Cost of materials, etc.[2]	do	60 395.8	21 345.5
Materials, parts, containers, etc., consumed	do	53 008.0	19 197.8
Resales	do	2 863.3	981.6
Fuels consumed	do	2 594.5	509.7
Purchased electric energy	do	1 016.4	282.1
Contract work	do	913.6	374.3
Value of shipments, including resales[2]	do	92 735.7	36 631.1
Value of resales	do	3 378.5	1 162.9
Value added by manufacture	do	33 080.9	15 253.0
Manufacturers' inventories:			
Beginning of year	do	9 804.4	4 686.3
Finished products	do	3 562.1	1 705.7
Work in process	do	2 835.4	1 523.9
Materials, supplies, fuel, etc.	do	3 406.8	1 456.8
End of year	do	10 813.0	4 661.2
Finished products	do	3 896.4	1 667.5
Work in process	do	3 261.6	1 490.8
Materials, supplies, fuel, etc.	do	3 654.9	1 502.9
Capital expenditures for plant and equipment	do	5 345.9	1 396.1
New capital expenditures	do	5 194.7	1 345.5
New buildings and other structures	do	844.1	358.5
New machinery and equipment	do	4 350.6	987.0
Used capital expenditures	do	151.2	50.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	31,721.0	1
New capital expenditures	5,229.7	1
Used capital expenditures	163.4	5
Retirements	915.4	2
End of year	36,198.6	1
Buildings and other structures:		
Beginning of year	7,396.5	1
New capital expenditures	829.5	2
Used capital expenditures	37.9	9
Retirements	163.7	2
End of year	8,100.2	1
Machinery and equipment:		
Beginning of year	24,324.5	1
New capital expenditures	4,400.2	1
Automobiles, trucks, etc., for highway use	107.6	(NA)
Computers and peripheral data processing equip.	59.9	(NA)
All other	3,589.6	(NA)
New machinery and equipment, n.s.k.	643.0	(NA)
Used capital expenditures	125.5	5
Retirements	752.6	1
End of year	28,098.1	1

Item	Amount (million dollars)	Standard error of estimate (percent)
Rental payments:		
Total	393.1	3
Buildings and other structures	146.7	4
Machinery and equipment	246.0	3
Depreciation charges during 1977:		
Total	2,117.0	1
Buildings and other structures	352.0	1
Machinery and equipment	1,765.0	1
Supplemental labor costs:		
Total	2,003.4	1
Legal costs	845.2	1
Voluntary costs	1,158.1	1
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	(157.3)	27
Response coverage ratio (percent)	61	(X)
Machinery	(589.6)	49
Response coverage ratio (percent)	62	(X)
Cost of purchased communication services	(125.3)	38
Response coverage ratio (percent)	62	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
(A) Indicates standard errors of 100 percent or more. Figures in parentheses have standard errors of 15 percent of more.
(NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Texas	-	**18 107**	**5 644**	**886.4**	**11 653.1**	**800.7**	**1 190.1**	**6 626.4**	**33 080.9**	**60 395.8**	**92 735.7**	**5 194.7**	736.1	**15 228.0**
STANDARD CONSOLIDATED STATISTICAL AREAS														
Houston-Galveston	E1	4 211	1 386	221.3	3 568.8	134.5	273.9	1 860.9	11 305.1	22 553.3	33 565.6	2 576.7	170.6	4 867.0
STANDARD METROPOLITAN STATISTICAL AREAS														
Abilene	-	141	43	5.8	51.4	4.1	8.2	33.5	106.9	510.1	620.3	8.1	5.2	62.5
Amarillo	-	211	60	7.7	94.0	5.5	11.2	59.7	474.8	1 534.0	2 008.3	16.1	5.4	68.8
Austin	-	527	135	20.7	259.0	11.4	21.6	100.1	553.6	479.6	1 001.6	75.5	14.0	250.3
Beaumont-Port Arthur-Orange	-	344	121	38.3	683.3	27.6	55.1	455.8	2 626.3	8 401.6	10 959.0	556.0	37.6	1 034.0
Brownsville-Harlingen-San Benito	-	151	56	9.0	74.3	6.9	13.6	47.7	201.3	286.9	484.8	19.2	6.9	101.0
Bryan-College Station	E1	63	22	2.1	22.2	1.6	3.3	15.4	55.5	72.2	127.3	4.9	2.0	27.8
Corpus Christi	-	248	73	12.1	178.6	8.2	16.6	109.5	734.7	3 183.1	3 875.2	398.1	10.9	282.0
Dallas-Fort Worth	-	5 505	1 750	269.9	3 508.9	171.7	339.8	1 814.4	7 869.1	8 460.5	16 116.9	500.8	230.0	4 075.7
El Paso	-	407	138	29.1	251.5	23.2	42.6	169.7	771.7	1 543.1	2 313.9	65.6	26.0	345.7
Galveston-Texas City	-	130	44	11.3	206.1	8.0	16.5	142.2	1 460.7	4 306.3	5 677.6	125.2	10.9	687.5
Houston	E2	4 081	1 342	210.1	3 362.7	126.5	257.4	1 718.7	9 844.4	18 247.0	27 888.0	2 451.5	162.7	4 179.4
Killeen-Temple	-	116	47	5.8	55.3	4.4	9.1	37.8	159.6	169.3	332.0	(D)	5.1	82.1
Laredo	-	60	17	1.5	11.9	1.1	2.1	7.4	26.8	55.4	85.1	0.9	1.2	10.5
Longview	-	247	96	15.9	206.3	12.0	23.9	139.2	641.2	761.9	1 387.4	52.4	13.9	295.9
Lubbock	-	290	68	12.9	137.8	9.3	18.1	76.5	349.1	487.1	813.3	37.5	7.1	114.9
McAllen-Pharr-Edinburg	-	169	45	5.5	41.1	4.4	8.6	29.1	115.2	158.4	271.8	9.9	3.1	54.1
Midland	E1	94	24	2.0	23.4	1.3	2.4	11.1	53.8	47.3	99.9	7.6	1.4	23.0
Odessa	-	220	67	5.9	86.7	4.0	8.4	51.4	232.9	508.0	734.6	(D)	4.0	91.8
San Angelo	-	100	27	4.8	42.6	3.4	6.1	25.0	126.3	158.9	291.3	6.2	3.5	78.1
San Antonio	-	944	286	40.1	399.2	28.7	55.7	231.8	905.3	1 130.8	2 017.7	92.5	34.9	482.0
Sherman-Denison	-	123	57	10.5	120.1	7.8	15.5	76.9	307.0	500.3	792.7	33.2	8.3	179.2
Texarkana, Tex.-Texarkana, Ark.	E6	135	40	7.7	87.5	6.0	10.6	55.6	228.9	246.6	481.7	16.2	9.0	106.1
Portion in Arkansas	E4	60	14	4.1	50.5	3.2	6.0	36.2	143.8	176.8	323.8	13.5	3.0	71.0
Portion in Texas	E1	75	26	3.6	37.0	2.8	4.6	19.3	85.1	69.8	157.9	2.7	6.0	35.1
Tyler	-	171	51	12.1	144.6	9.6	18.4	104.1	379.7	484.6	857.1	18.2	12.0	226.7
Waco	-	261	112	14.8	154.7	10.9	21.1	99.7	392.6	470.7	858.0	39.1	12.5	193.0
Wichita Falls	-	177	54	7.9	84.5	6.3	11.9	57.2	213.2	205.6	416.6	38.8	5.0	68.0
COUNTIES														
Anderson	-	39	17	1.8	19.2	1.5	2.9	13.5	33.7	108.8	140.3	(D)	1.4	20.9
Andrews	-	13	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Angelina	-	127	38	8.6	98.7	6.8	14.3	73.3	263.8	266.0	532.8	21.7	8.5	149.6
Aransas	-	15	4	0.4	4.0	0.3	0.6	3.1	7.9	35.8	43.6	(D)	(D)	(D)
Archer	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Armstrong	-	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Atascosa	E5	10	1	0.1	0.5	0.1	0.1	0.4	1.5	2.2	3.8	0.1	(Z)	(NA)
Austin	-	23	5	0.5	6.6	0.4	0.7	4.2	12.3	15.7	28.2	1.5	0.2	3.2
Bailey	E1	11	1	0.1	0.8	0.1	0.1	0.6	1.8	2.8	4.0	(D)	(Z)	(NA)
Bandera	E1	7	1	0.1	0.5	0.1	0.1	0.3	1.1	0.5	1.6	(D)	(D)	(D)
Bastrop	-	27	9	0.7	5.2	0.6	1.2	3.8	11.0	10.0	21.1	1.4	0.7	7.1
Baylor	E3	4	-	(Z)	0.2	(Z)	(Z)	0.1	0.4	1.0	1.4	(Z)	(Z)	(NA)
Bee	E2	10	2	0.1	0.8	(Z)	0.1	0.3	1.9	1.6	3.5	(D)	0.1	0.8
Bell	-	95	41	5.4	52.3	4.1	8.5	35.7	154.8	163.6	321.6	(D)	4.7	79.3
Bexar	-	858	259	34.2	349.3	23.7	45.6	194.7	799.2	964.6	1 745.6	78.6	30.9	448.2
Blanco	E1	5	1	(Z)	0.4	(Z)	0.1	0.3	0.8	1.4	2.2	(D)	(D)	(D)
Borden	-	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Bosque	E1	21	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	7.9
Bowie	-	75	26	3.6	37.0	2.8	4.6	19.3	85.1	69.8	157.9	2.7	6.0	35.1
Brazoria	-	145	53	13.1	253.8	7.0	14.1	118.5	1 313.4	2 656.4	3 979.0	507.0	10.4	582.0
Brazos	E1	63	22	2.1	22.2	1.6	3.3	15.4	55.5	72.2	127.3	4.9	2.0	27.8
Brewster	E0	6	-	(Z)	0.1	(Z)	(Z)	0.1	0.2	0.1	0.3	(Z)	0.1	0.8
Briscoe	E4	7	-	(Z)	0.1	(Z)	(Z)	0.1	0.3	0.2	0.5	(D)	(D)	(D)
Brooks	E4	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Brown	-	47	16	2.0	24.3	1.5	3.3	16.4	110.8	108.9	216.0	6.4	1.9	57.7
Burleson	-	9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Burnet	E1	18	3	0.2	2.6	0.2	0.4	1.8	4.8	3.1	7.8	0.3	0.1	2.1
Caldwell	-	15	5	0.4	2.9	0.4	0.8	2.3	6.1	24.5	30.4	0.5	0.4	2.9
Calhoun	-	23	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Callahan	E0	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Cameron	-	151	56	9.0	74.3	6.9	13.6	47.7	201.3	286.9	484.8	19.2	6.9	101.0
Camp	-	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	3.7
Carson	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cass	-	31	7	1.9	29.1	1.0	2.1	10.7	53.4	55.2	108.9	(D)	1.0	4.6
Castro	-	7	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Chambers	-	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cherokee	E1	114	40	3.1	24.5	2.6	4.9	18.1	49.0	50.0	97.7	(D)	3.1	34.8
Childress	-	10	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clay	E1	9	2	0.2	1.7	0.2	0.4	1.1	4.2	10.9	15.1	(D)	(D)	(D)
Cochran	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Coke	E1	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Coleman	-	14	4	0.5	3.5	0.4	0.7	2.5	6.1	5.1	11.2	(D)	0.2	2.0
Collin	-	131	43	4.7	48.1	3.2	6.4	26.6	121.7	175.8	296.0	18.1	4.0	52.5
Collingsworth	E0	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	E2	19	4	0.5	4.1	0.4	0.8	3.1	5.7	10.6	16.3	(D)	0.2	1.6
Comal	-	42	15	2.8	23.7	2.4	5.0	18.7	39.7	55.5	96.6	5.6	2.9	24.4
Comanche	-	16	4	0.3	1.9	0.2	0.3	1.1	12.9	15.9	28.7	(D)	0.3	7.3
Concho	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cooke	-	56	20	2.7	29.8	2.3	4.3	20.4	79.5	67.5	144.6	(D)	2.2	31.7

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
COUNTIES—Con.														
Coryell	E1	21	6	0.4	3.0	0.4	0.6	2.1	4.9	5.6	10.4	0.2	0.3	2.8
Cottle	E0	2	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Crane	E1	4	1	(Z)	0.7	(Z)	0.1	0.6	1.4	1.2	2.6	(D)	(D)	(D)
Crockett	E0	1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Crosby	E4	8	1	0.1	0.6	0.1	0.1	0.5	1.4	2.0	3.4	(D)	0.1	1.0
Culberson	–	3	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dallam	–	11	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	2.2
Dallas	–	3 235	1 011	163.7	2 138.8	98.0	193.4	995.2	4 421.0	4 255.3	8 635.7	280.7	144.0	2 451.2
Dawson	E2	15	5	0.4	2.9	0.3	0.6	2.3	–0.1	16.4	16.2	(D)	0.4	2.0
Deaf Smith	–	31	8	1.1	14.7	0.9	1.8	11.9	33.0	210.8	246.0	(D)	0.8	23.8
Delta	–	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Denton	–	123	36	5.7	51.4	4.0	7.8	30.9	128.6	116.2	244.0	5.9	4.2	56.9
De Witt	–	19	8	0.9	7.4	0.7	1.3	4.4	17.3	28.2	42.9	2.3	0.7	9.4
Dickens	E0	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dimmit	–	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Donley	E0	5	–	(Z)	0.2	(Z)	(Z)	0.1	0.4	0.4	0.8	(Z)	(Z)	(NA)
Duval	E1	2	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(Z)
Eastland	E1	35	12	0.8	6.4	0.7	1.2	4.9	14.2	13.8	28.0	0.7	0.7	9.1
Ector	–	220	67	5.9	86.7	4.0	8.4	51.4	232.9	508.0	734.6	(D)	4.0	91.8
Edwards	E0	1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ellis	–	93	41	5.7	62.8	4.8	9.3	46.2	183.0	199.1	384.9	10.8	4.0	84.6
El Paso	–	407	138	29.1	251.5	23.2	42.6	169.7	771.7	1 543.1	2 313.9	65.6	26.0	345.7
Erath	–	29	5	0.9	6.8	0.7	1.2	4.5	20.8	18.9	37.9	(D)	0.3	3.0
Falls	–	14	6	0.6	3.9	0.5	0.8	2.8	8.2	19.3	28.3	0.2	0.4	5.3
Fannin	E1	32	8	1.1	11.9	0.9	1.7	8.5	35.8	49.4	84.6	(D)	1.1	24.2
Fayette	–	34	7	0.5	4.5	0.4	0.9	3.1	13.1	12.0	24.7	0.9	0.4	7.0
Fisher	–	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Floyd	E4	9	1	0.1	1.0	0.1	0.1	0.6	1.8	2.9	4.7	0.1	(Z)	(NA)
Foard	E0	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fort Bend	–	76	34	6.6	93.8	4.6	9.5	58.9	223.1	288.3	506.0	17.0	7.0	151.9
Franklin	E1	9	4	0.2	1.3	0.2	0.3	1.0	3.2	1.5	4.7	0.1	0.3	3.8
Freestone	E5	11	2	0.1	1.0	0.1	0.2	0.6	2.5	3.2	5.6	0.1	0.1	1.2
Frio	–	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Gaines	–	11	2	0.2	1.7	0.1	0.3	1.4	4.0	7.0	10.9	0.2	(D)	(D)
Galveston	–	130	44	11.3	206.1	8.0	16.5	142.2	1 460.7	4 306.3	5 677.6	125.2	10.9	687.5
Garza	–	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Gillespie	E1	21	4	0.3	2.5	0.3	0.6	2.0	3.9	13.6	17.5	1.1	0.5	5.9
Goliad	E0	2	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Gonzales	E1	26	8	0.8	5.5	0.7	1.3	4.1	17.7	54.0	70.9	3.6	0.8	10.2
Gray	–	37	12	2.2	31.2	1.3	3.1	17.7	121.7	136.5	260.3	(D)	2.1	57.0
Grayson	–	123	57	10.5	120.1	7.8	15.5	76.9	307.0	500.3	792.7	33.2	8.3	179.2
Gregg	–	181	67	11.5	159.0	8.7	17.4	108.0	542.6	644.7	1 175.7	45.3	8.0	170.0
Grimes	–	21	9	0.7	7.4	0.6	1.1	5.3	18.9	26.2	44.0	5.4	0.4	5.6
Guadalupe	–	44	12	3.1	26.1	2.6	5.1	18.4	66.4	110.7	175.5	8.3	1.1	9.4
Hale	–	54	13	1.9	19.2	1.5	3.0	15.0	46.7	261.6	306.7	5.6	1.3	30.1
Hall	E7	4	–	(Z)	0.1	(Z)	(Z)	(Z)	0.3	0.1	0.4	(Z)	(D)	(D)
Hamilton	E5	14	3	0.2	1.9	0.2	0.4	1.2	5.0	7.3	12.2	0.2	0.2	3.6
Hansford	–	3	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hardeman	–	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	7.4
Hardin	–	30	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	24.2
Harris	–	3 707	1 214	187.2	2 975.6	112.6	229.1	1 516.1	8 220.1	15 136.8	23 152.8	1 917.6	143.5	3 405.3
Harrison	–	66	29	4.4	47.3	3.3	6.6	31.2	98.6	117.2	211.7	7.1	5.9	125.9
Hartley	–	1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Haskell	E5	4	–	(Z)	0.2	(Z)	(Z)	0.1	0.5	0.5	0.9	(D)	(D)	(D)
Hays	–	24	7	0.9	9.5	0.6	1.2	5.1	21.3	18.8	39.9	(D)	0.5	8.1
Hemphill	E1	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Henderson	–	50	14	1.8	14.1	1.5	2.8	11.1	48.1	60.3	104.2	5.4	1.8	24.8
Hidalgo	–	169	45	5.5	41.1	4.4	8.6	29.1	115.2	158.4	271.8	9.9	3.1	54.1
Hill	–	37	11	1.2	9.9	0.9	1.7	6.2	28.9	37.3	67.1	1.2	1.5	21.0
Hockley	–	17	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.6
Hood	–	11	2	0.1	1.0	0.1	0.2	0.7	1.3	2.3	3.5	0.2	(D)	(D)
Hopkins	–	34	13	2.0	18.8	1.4	3.0	13.2	46.7	61.8	108.3	2.9	1.7	23.7
Houston	E1	41	9	1.1	10.6	0.9	1.7	7.8	22.8	33.3	56.2	2.6	0.7	14.0
Howard	–	32	12	1.9	25.4	1.4	2.8	17.5	64.2	373.4	443.5	18.6	1.6	40.4
Hunt	–	61	24	6.1	69.6	4.9	9.9	52.7	136.2	96.7	230.3	7.5	4.0	55.8
Hutchinson	–	29	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jack	–	5	2	0.1	1.3	0.1	0.2	1.0	3.6	3.7	7.3	0.1	0.1	0.6
Jackson	–	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jasper	–	60	12	3.0	41.7	2.3	4.7	28.8	104.8	143.3	246.5	17.1	2.9	56.2
Jefferson	–	240	84	28.4	521.6	20.6	42.1	355.2	2 274.3	7 553.4	9 756.7	406.6	27.8	723.0
Jim Hogg	E0	1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jim Wells	–	24	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.8
Johnson	–	101	31	3.7	34.4	2.9	5.3	23.7	88.5	125.6	209.4	4.7	3.5	44.5
Jones	–	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	4.5
Karnes	E2	12	3	0.2	2.6	0.2	0.4	1.7	12.1	11.8	24.3	(D)	0.2	3.4
Kaufman	–	61	19	2.0	19.8	1.6	3.2	13.7	46.7	58.5	105.0	4.1	1.3	22.3
Kendall	E2	9	1	0.1	0.6	(Z)	0.1	0.3	1.3	1.3	2.6	(Z)	(Z)	(NA)
Kent	E0	1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Kerr	E4	25	4	0.9	8.5	0.6	1.2	4.6	21.3	12.6	32.9	1.6	0.2	2.4
Kimble	–	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Kleberg	E1	8	1	0.1	0.8	(Z)	0.1	0.3	2.0	1.3	3.3	(Z)	0.1	1.7
Knox	E0	2	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lamar	–	57	22	4.9	51.8	4.0	7.5	37.2	215.4	251.3	467.9	10.5	4.3	107.2

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
COUNTIES—Con.														
Lamb	–	18	3	0.8	7.4	0.8	1.5	6.2	9.2	24.6	33.1	(D)	0.1	1.4
Lampasas	–	12	3	0.4	2.7	0.3	0.5	1.6	4.2	22.3	27.9	(D)	0.3	3.7
La Salle	E0	1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Lavaca	E1	38	12	1.6	12.4	1.0	1.9	6.5	26.6	36.1	60.1	0.6	0.6	4.8
Lee	–	11	3	0.3	2.5	0.2	0.4	1.3	4.8	11.2	16.1	1.2	0.2	2.5
Leon	–	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Liberty	E1	50	11	1.0	13.5	0.8	1.7	9.3	27.8	60.6	85.4	3.8	0.4	5.0
Limestone	–	18	11	0.9	6.2	0.7	1.4	4.8	10.1	16.4	26.8	0.3	0.6	5.9
Lipscomb	E0	4	–	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	(D)	(D)	(D)
Live Oak	–	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Llano	E1	10	1	0.1	0.4	(Z)	0.1	0.3	0.8	1.2	2.0	(Z)	0.1	0.7
Lubbock	E1	290	68	12.9	137.8	9.3	18.1	76.5	349.1	487.1	813.3	37.5	7.1	114.9
Lynn	E0	3	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
McCulloch	–	9	2	0.3	2.2	0.3	0.5	1.7	7.7	7.5	14.1	(D)	0.2	2.6
McLennan	–	261	112	14.8	154.7	10.9	21.1	99.7	392.6	470.7	858.0	39.1	12.5	193.0
McMullen	–	1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Madison	E2	7	1	(Z)	0.2	(Z)	0.1	0.2	0.5	0.2	0.8	(Z)	(D)	(D)
Marion	E1	16	2	0.2	1.6	0.1	0.3	1.0	3.3	5.7	9.2	0.1	0.3	3.1
Martin	E8	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mason	E8	8	–	(Z)	0.2	(Z)	(Z)	0.1	0.6	1.1	1.7	0.1	(Z)	(NA)
Matagorda	E1	28	6	0.8	12.1	0.6	1.1	6.8	21.8	110.8	130.9	(D)	(D)	(D)
Maverick	–	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Medina	–	19	4	0.5	5.0	0.4	0.8	3.6	11.7	7.5	18.7	0.3	0.6	7.7
Menard	E0	1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Midland	E1	94	24	2.0	23.4	1.3	2.4	11.1	53.8	47.3	99.9	7.6	1.4	23.0
Milam	–	21	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mills	E6	8	3	0.1	0.8	0.1	0.2	0.5	2.2	1.7	3.9	(D)	(Z)	(NA)
Mitchell	E1	8	2	0.1	0.9	0.1	0.2	0.7	1.5	1.4	3.0	0.1	0.1	0.9
Montague	E1	23	6	0.5	4.0	0.5	0.9	3.0	8.2	10.6	18.7	0.3	1.0	10.5
Montgomery	–	89	30	2.1	25.4	1.5	3.0	15.4	58.6	102.7	161.3	6.0	1.4	34.6
Moore	–	15	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	17.4
Morris	–	31	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Motley	E0	1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nacogdoches	–	67	26	3.5	33.8	2.8	5.2	24.0	79.5	112.7	187.4	5.5	2.9	43.0
Navarro	–	38	21	2.3	23.7	1.8	3.6	16.6	59.4	79.6	134.9	5.7	2.1	37.6
Newton	E1	38	3	0.6	7.2	0.6	1.1	5.4	26.3	23.1	49.3	1.3	0.4	5.3
Nolan	–	24	13	1.5	15.1	1.1	2.3	11.1	32.6	78.4	111.8	5.9	1.1	18.4
Nueces	–	221	66	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ochiltree	–	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.7
Orange	–	74	27	8.9	147.5	6.1	10.8	91.5	319.3	727.2	1 048.6	146.0	8.1	286.8
Palo Pinto	E1	40	15	2.1	18.6	1.4	2.9	11.0	43.4	45.1	88.5	3.5	2.3	27.6
Panola	–	21	4	0.5	4.2	0.4	0.9	3.3	12.6	13.3	26.1	2.0	0.5	6.6
Parker	E3	53	12	1.2	11.0	0.9	1.7	7.5	26.8	28.3	54.7	3.8	0.4	5.6
Parmer	–	15	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pecos	E2	10	2	0.1	1.1	0.1	0.1	0.6	3.3	5.7	9.0	(D)	(Z)	(NA)
Polk	E1	46	7	1.1	12.6	1.0	2.3	10.4	31.5	36.9	68.5	3.1	0.6	7.8
Potter	–	180	51	7.1	86.9	5.1	10.5	56.3	458.4	1 495.3	1 952.2	9.9	4.9	63.5
Presidio	–	2	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Rains	E1	7	4	0.2	1.4	0.2	0.3	1.0	2.6	1.2	3.8	0.2	(D)	(D)
Randall	–	31	9	0.6	7.1	0.4	0.8	3.4	16.3	38.7	56.2	6.2	0.6	5.2
Reagan	–	1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Real	E0	2	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Red River	–	24	10	1.1	7.0	0.9	1.4	5.4	14.1	20.4	34.4	0.9	0.8	8.9
Reeves	–	15	4	0.3	2.2	0.3	0.5	1.7	6.3	10.8	17.1	0.4	0.3	3.6
Refugio	E1	2	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Robertson	–	11	5	0.3	3.2	0.3	0.6	2.4	7.8	11.2	18.9	0.2	0.4	6.7
Rockwall	–	17	4	0.5	5.9	0.4	0.8	3.7	9.7	20.3	30.4	0.4	(D)	(D)
Runnels	–	13	5	0.6	4.7	0.5	1.0	3.0	11.5	12.1	23.1	0.7	0.6	7.0
Rusk	–	53	17	1.8	17.3	1.4	2.9	12.1	36.0	38.2	73.8	3.4	1.3	13.5
Sabine	–	19	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
San Augustine	E4	35	3	0.2	1.7	0.2	0.2	1.3	3.4	4.6	7.9	0.3	(D)	(D)
San Jacinto	E2	11	–	(Z)	0.3	(Z)	(Z)	0.2	0.7	0.7	1.4	0.1	(Z)	(NA)
San Patricio	–	27	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
San Saba	E3	6	–	(Z)	0.2	(Z)	(Z)	0.1	0.4	1.1	1.5	(Z)	(Z)	(NA)
Schleicher	E0	3	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Scurry	–	15	3	0.4	4.6	0.4	0.7	3.8	7.1	10.1	17.3	1.3	0.4	4.3
Shackelford	–	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Shelby	–	53	10	2.5	18.9	2.1	4.6	14.3	41.8	78.2	118.6	5.5	1.0	14.9
Sherman	E1	4	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Smith	–	171	51	12.1	144.6	9.6	18.4	104.1	379.7	484.6	857.1	18.2	12.0	226.7
Somervell	E0	2	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Starr	E0	1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Stephens	–	18	8	0.6	5.7	0.5	1.0	3.5	9.7	11.0	22.2	1.0	0.8	9.3
Sutton	E6	2	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Swisher	E1	14	2	0.2	1.5	0.1	0.3	1.3	6.1	3.6	9.6	0.1	0.1	1.7
Tarrant	–	1 649	545	82.0	1 131.0	55.3	110.9	663.3	2 831.9	3 470.7	6 134.9	170.4	67.3	1 342.0
Taylor	–	124	39	5.5	48.5	4.0	7.8	31.3	102.1	498.0	603.3	7.7	5.0	57.8
Terrell	E0	1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Terry	E2	11	3	0.2	1.9	0.2	0.3	1.2	4.5	4.4	8.0	0.1	(Z)	(NA)
Throckmorton	E7	6	–	(Z)	0.2	(Z)	(Z)	0.1	0.4	0.3	0.7	(Z)	(D)	(D)
Titus	–	37	12	1.2	10.6	1.0	1.9	7.6	35.4	150.8	186.0	1.3	1.1	21.5
Tom Green	–	100	27	4.8	42.6	3.4	6.1	25.0	126.3	158.9	291.3	6.2	3.5	78.1
Travis	E1	426	107	17.8	230.9	9.3	17.5	84.5	505.7	422.9	898.7	(D)	12.2	229.8

See footnotes at end of table.

Table 4. **All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972**—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
COUNTIES—Con.														
Trinity	E	3	21	3	0.2	1.4	0.2	0.3	1.2	4.9	4.1	8.9	0.2	0.1	1.0
Tyler	E	1	49	8	0.7	6.0	0.7	1.3	5.0	14.1	19.0	32.3	1.0	0.7	9.3
Upshur	E	1	23	3	0.4	3.4	0.3	0.6	2.6	5.2	15.4	20.2	0.6	0.6	6.4
Upton	E	7	3	–	(Z)	0.1	(Z)	(Z)	0.1	0.2	0.1	0.3	(Z)	(D)	(D)
Uvalde	–		15	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Val Verde	–		16	4	0.7	5.0	0.5	1.0	3.5	15.7	22.6	38.6	(D)	(D)	(D)
Van Zandt	–		26	8	0.9	7.2	0.7	1.3	5.2	16.2	13.5	29.9	0.8	0.7	7.2
Victoria	–		43	13	2.7	44.1	1.8	3.9	24.9	181.0	328.8	512.3	43.3	2.8	103.3
Walker	–		42	13	1.5	13.7	1.3	2.5	10.5	49.5	60.5	109.8	1.6	0.7	12.9
Waller	E	4	14	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Ward	–		13	1	0.1	1.0	0.1	0.1	0.6	6.8	22.2	28.7	0.1	0.1	2.0
Washington	E	1	30	15	1.3	12.6	1.1	2.3	9.0	32.0	33.7	65.7	2.8	1.2	18.6
Webb	–		60	17	1.5	11.9	1.1	2.1	7.4	26.8	55.4	85.1	0.9	1.2	10.5
Wharton	–		39	8	0.9	8.2	0.7	1.3	5.6	13.5	33.8	46.6	1.7	0.7	10.4
Wheeler	–		9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wichita	–		168	52	7.7	82.8	6.1	11.6	56.2	209.0	194.7	401.4	(D)	(D)	(D)
Wilbarger	–		15	4	0.5	4.5	0.4	0.8	3.2	18.1	31.8	50.0	(D)	0.7	13.0
Willacy	–		11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.6
Williamson	E	3	77	21	2.0	18.5	1.5	2.9	10.5	26.6	37.9	63.0	(D)	1.3	12.1
Wilson	–		8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.3
Winkler	–		5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.0
Wise	–		31	6	0.5	4.6	0.4	0.8	3.0	10.1	8.5	18.5	1.5	0.5	6.1
Wood	–		33	7	0.7	5.2	0.6	1.4	4.2	18.2	25.8	44.0	1.1	0.6	7.5
Yoakum	–		4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.8
Young	–		30	9	1.5	15.7	1.2	2.4	10.4	44.7	42.8	85.9	2.2	0.9	19.7
Zapata	–		1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Zavala	–		8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
CITIES															
Abilene	–		115	38	4.9	44.5	3.3	6.8	28.0	97.9	497.4	598.5	7.7	4.9	57.7
Alvin	–		25	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Amarillo	–		192	54	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.2	65.0
Arlington	–		256	78	10.8	177.9	8.0	17.7	125.4	497.2	1 096.7	1 590.8	22.5	9.3	283.4
Athens	–		32	10	1.5	11.0	1.2	2.2	8.7	40.5	53.5	89.7	(D)	1.7	22.9
Atlanta	–		17	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	5.2
Austin	E	1	371	92	11.5	125.0	6.9	13.0	61.0	278.2	200.5	474.3	20.8	7.7	93.8
Baytown	–		30	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Beaumont	–		146	50	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.0	194.9
Belton	–		10	5	0.7	6.9	0.6	1.1	4.8	20.5	14.8	35.2	1.0	0.6	10.5
Big Spring	–		29	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bonham	E	2	14	5	0.8	9.8	0.7	1.3	7.0	30.8	40.0	70.1	(D)	0.9	21.5
Borger	–		25	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Breckenridge	–		18	8	0.6	5.7	0.5	1.0	3.5	9.7	11.0	22.2	1.0	(D)	(D)
Brenham	–		28	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	17.6
Brownsville	–		56	21	3.4	24.1	2.7	5.3	16.3	66.0	91.0	155.9	3.8	4.2	68.5
Brownwood	–		38	15	2.0	24.0	1.5	3.2	16.2	109.9	108.2	214.4	6.4	1.7	55.9
Bryan	E	1	53	21	2.1	21.4	1.6	3.2	15.0	52.5	65.3	117.4	(D)	1.8	25.0
Burleson	–		22	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.3
Carrollton	–		70	33	7.3	93.5	4.5	9.1	40.4	263.8	193.6	452.2	5.2	3.8	75.1
Carthage	–		19	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Cedar Hill	–		11	3	0.5	3.8	0.4	0.8	2.8	5.0	5.1	9.9	0.3	(NA)	(NA)
Center	–		30	6	2.2	16.7	2.0	4.3	12.9	37.1	54.6	90.3	5.0	0.8	12.8
Childress	–		10	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Clarksville	–		14	9	0.9	6.2	0.8	1.3	4.8	11.2	19.1	30.1	0.9	0.5	7.4
Cleburne	–		41	18	2.5	21.7	1.9	3.6	15.2	62.2	90.4	148.5	3.1	2.4	33.4
Clifton	–		6	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.0
Coleman	–		10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Commerce	–		11	4	0.5	4.7	0.5	0.9	3.5	7.7	9.7	17.3	1.0	(NA)	(NA)
Conroe	–		55	18	1.4	17.4	0.9	2.0	9.7	35.4	63.7	99.5	3.1	0.7	14.2
Corpus Christi	–		197	58	6.9	88.7	4.5	8.8	50.6	271.3	1 057.6	1 333.1	(D)	6.6	147.3
Corsicana	–		32	17	1.7	17.0	1.3	2.8	12.1	43.5	48.4	89.1	3.7	1.7	27.3
Crockett	E	1	20	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Crystal City	–		8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Dallas	–		2 154	693	112.7	1 458.8	67.1	133.2	673.2	2 726.9	2 768.4	5 484.5	191.3	107.2	1 793.2
Deer Park	–		15	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	284.5
Del Rio	–		16	4	0.7	5.0	0.5	1.0	3.5	15.7	22.6	38.6	(D)	(D)	(D)
Denison	–		36	14	2.3	26.1	1.8	3.6	18.5	107.0	187.0	290.5	9.5	2.5	48.5
Denton	–		57	22	4.1	37.6	2.9	5.8	23.0	102.7	69.1	171.3	4.7	3.3	44.7
Diboll	–		16	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dumas	–		12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Duncanville	–		22	6	0.5	5.2	0.4	0.8	3.3	12.0	11.4	23.5	0.6	(NA)	(NA)
Eagle Pass	–		14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Edinburg	E	1	23	7	0.5	4.6	0.3	0.6	2.7	9.6	15.3	24.8	0.4	0.5	8.0
El Campo	–		19	3	0.6	5.5	0.5	0.9	3.8	8.5	18.3	26.2	1.0	0.5	6.4
El Paso	–		386	127	26.6	221.4	21.1	38.2	146.1	689.9	1 316.9	1 998.3	(D)	24.5	320.7
Ennis	–		39	20	2.3	21.7	1.9	3.7	15.7	31.0	60.9	92.3	1.9	1.7	22.6
Euless	–		19	9	1.7	17.2	1.1	1.7	7.5	45.2	35.4	78.2	6.7	1.0	20.0
Farmers Branch	E	1	94	35	3.4	43.9	2.2	4.3	21.8	74.2	77.3	149.6	7.1	2.5	39.7
Fort Worth	–		911	313	56.2	789.5	36.3	72.2	441.4	1 913.9	1 878.3	3 633.7	114.0	46.1	850.1
Freeport	–		39	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Gainesville	–		47	17	2.5	27.8	2.1	3.9	19.0	73.7	48.7	121.4	1.6	(D)	(D)
Galveston	–		56	23	2.8	40.8	2.3	4.5	31.5	144.1	107.5	247.9	5.3	3.1	79.9
Garland	–		288	90	13.5	173.5	8.9	16.8	92.7	474.4	471.1	948.8	21.2	12.5	227.9

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
CITIES—Con.														
Graham	-	18	5	0.9	10.6	0.7	1.5	6.6	27.9	22.4	49.6	(D)	(NA)	(NA)
Grand Prairie	-	155	52	6.1	69.1	4.2	8.0	37.2	155.8	179.9	331.7	6.8	5.2	119.9
Grapevine	-	16	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Greenville	-	41	15	5.1	61.0	4.0	8.1	46.2	120.9	78.4	196.6	5.9	2.9	45.9
Haltom City	-	62	18	1.4	17.1	1.1	1.9	11.5	30.4	31.4	61.4	2.2	1.2	23.7
Harlingen	-	46	21	2.4	18.3	1.7	3.3	11.3	42.5	66.9	108.8	2.5	1.7	20.3
Henderson	-	41	16	1.7	16.3	1.3	2.8	11.4	34.2	36.0	69.7	3.3	1.1	12.5
Hereford	-	31	8	1.1	14.7	0.9	1.8	11.9	33.0	210.8	246.0	(D)	(D)	(D)
Hillsboro	-	23	7	0.6	5.5	0.4	0.9	3.6	19.4	23.8	44.1	0.4	1.0	15.0
Houston	-	2 994	980	147.4	2 265.8	85.9	174.5	1 093.7	4 513.6	7 036.9	11 476.9	403.3	108.0	2 096.5
Hunters Creek Village	-	13	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Huntsville	-	31	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Hurst	E1	51	17	1.1	12.5	0.8	1.7	7.6	22.5	29.7	54.0	0.7	0.8	13.5
Ingleside	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Irving	-	164	45	6.5	90.8	3.0	5.7	31.4	175.5	152.7	325.1	6.3	3.5	92.3
Jacksonville	E1	72	33	2.6	20.7	2.3	4.3	15.6	41.7	41.9	82.1	(D)	2.5	29.1
Jasper	-	39	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kaufman	-	12	6	0.5	4.0	0.4	0.8	2.8	10.8	15.8	26.1	(D)	(NA)	(NA)
Kennedale	-	22	4	0.7	9.0	0.8	1.2	6.1	29.2	21.0	50.7	(D)	(NA)	(NA)
Kerrville	E2	19	4	0.9	8.2	0.6	1.1	4.4	20.7	12.2	31.8	1.6	(NA)	(NA)
Kilgore	-	26	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	14.1
Lancaster	E1	24	12	1.0	8.7	0.8	1.6	6.5	20.9	28.0	47.7	1.4	0.7	12.5
La Porte	-	20	9	2.4	50.5	1.5	3.1	28.6	240.3	465.6	694.4	162.1	0.5	52.3
Laredo	E2	51	9	0.7	6.2	0.5	1.0	3.4	13.8	12.2	26.0	0.8	(D)	(D)
Lewisville	-	37	12	1.3	11.2	0.9	1.6	6.2	22.7	33.7	56.5	1.1	0.7	10.3
Liberty	-	14	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Littlefield	-	12	3	0.8	7.3	0.8	1.4	6.1	8.7	24.3	32.4	(D)	(NA)	(NA)
Longview	-	131	43	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.5	127.6
Lubbock	-	269	62	12.5	132.6	8.9	17.2	73.0	327.7	468.6	777.0	(D)	6.7	110.9
Lufkin	-	92	29	6.6	80.6	5.3	11.0	60.1	214.9	201.1	414.3	19.2	4.8	75.6
McAllen	-	56	15	2.5	17.8	2.0	3.9	12.4	47.1	46.4	92.5	7.1	0.8	12.2
McGregor	-	10	4	0.6	7.5	0.5	0.9	4.5	10.3	12.4	23.6	(D)	0.8	13.2
McKinney	-	31	17	1.5	13.0	1.2	2.3	9.0	47.6	45.4	91.1	2.9	1.1	11.3
Mansfield	-	38	21	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	7.5
Marshall	-	56	25	2.7	24.7	2.2	4.4	17.6	57.8	57.2	114.0	(D)	2.4	27.4
Mesquite	-	46	14	4.1	57.0	3.2	6.5	39.0	200.4	255.9	443.9	13.6	2.6	49.9
Mexia	-	11	7	0.6	4.0	0.5	0.9	3.1	6.5	9.9	16.7	0.3	(NA)	(NA)
Midland	E1	76	18	1.3	16.2	0.6	1.3	6.3	30.9	26.5	57.3	6.7	1.2	20.5
Mineola	-	15	4	0.5	3.6	0.5	1.1	3.1	13.8	15.1	29.0	0.7	0.5	7.0
Mineral Wells	-	34	11	1.6	14.3	1.0	2.1	8.2	32.5	34.5	67.7	3.0	(D)	(D)
Missouri City	-	16	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	22.5
Mount Pleasant	-	33	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nacogdoches	-	53	23	3.3	32.3	2.6	4.9	22.8	74.8	105.1	175.2	5.0	2.7	40.9
Navasota	-	17	9	0.7	7.3	0.6	1.1	5.3	18.8	28.2	43.8	5.4	(NA)	(NA)
New Braunfels	-	36	12	2.6	21.7	2.2	4.6	17.1	33.2	46.3	81.0	(D)	(D)	(D)
North Richland Hills	-	20	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Odessa	-	157	39	3.2	47.4	1.9	4.1	24.3	89.3	243.8	332.1	8.4	2.9	62.1
Olney	-	12	4	0.5	5.1	0.5	0.9	3.8	16.8	20.4	36.3	(D)	(NA)	(NA)
Orange	-	44	23	8.6	144.5	5.9	10.4	89.4	314.2	723.4	1 039.9	145.5	7.0	258.7
Palestine	-	33	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	10.9
Pampa	-	31	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	16.9
Paris	-	52	22	4.9	51.7	3.9	7.4	37.1	215.1	251.0	467.3	10.5	(D)	(D)
Pasadena	-	79	30	4.6	80.8	3.2	6.1	49.6	303.1	684.8	979.9	120.7	2.2	99.3
Pearland	-	28	10	0.6	7.1	0.5	1.0	4.7	17.0	18.0	34.5	0.8	(NA)	(NA)
Plainview	-	45	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Plano	-	43	15	1.9	20.6	1.3	2.8	12.6	40.5	58.6	100.0	(D)	2.2	32.0
Port Arthur	-	50	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Port Lavaca	-	13	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Port Neches	-	7	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Post	-	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Richardson	-	106	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	45.1
Robstown	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Rockdale	-	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Rockwall	-	13	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Round Rock	E2	20	3	0.5	7.3	0.2	0.5	2.6	7.4	14.0	19.9	(D)	(NA)	(NA)
San Angelo	-	99	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
San Antonio	-	782	241	32.5	328.6	22.6	43.3	184.4	768.4	910.3	1 660.7	75.5	28.6	412.9
San Marcos	-	19	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Seguin	-	36	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.7
Sherman	-	51	25	6.3	79.5	4.5	9.0	47.9	174.7	277.1	441.3	22.7	4.9	115.4
Stafford	E1	21	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Stephenville	-	21	5	0.8	6.4	0.6	1.2	4.4	20.3	18.4	37.0	(D)	(NA)	(NA)
Sugar Land	-	12	8	2.4	39.2	1.4	3.0	19.5	105.6	152.8	249.5	12.2	(D)	(D)
Sulphur Springs	-	28	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sweeny	-	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sweetwater	-	18	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	6.2
Taylor	-	18	12	0.9	6.9	0.8	1.6	4.9	11.5	14.3	25.9	0.2	0.9	9.0
Temple	-	62	30	4.2	41.9	3.2	6.9	29.0	127.6	142.7	273.6	(D)	3.7	64.7
Terrell	-	32	13	1.5	15.3	1.2	2.3	10.5	34.1	39.7	74.1	3.3	1.3	20.5
Texarkana	E1	60	25	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	25.6
Texas City	-	33	12	7.9	158.0	5.3	11.2	105.8	1 300.9	4 176.9	5 392.7	117.0	7.5	601.1
Tyler	-	151	40	8.5	100.7	6.7	12.7	70.7	291.5	413.8	698.9	(D)	7.9	161.9
Vernon	-	15	4	0.5	4.5	0.4	0.8	3.2	18.1	31.8	50.0	(D)	(D)	(D)

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
CITIES—Con.														
Victoria	–	42	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Waco	–	177	71	10.6	110.6	7.6	14.7	71.3	293.4	330.2	621.1	24.4	8.9	139.6
Waxahachie	–	23	6	1.2	13.3	0.9	1.7	9.4	39.6	31.0	71.1	2.0	1.3	20.8
Weatherford	E3	34	8	0.5	5.1	0.4	0.8	3.3	12.8	19.1	31.6	1.8	(NA)	(NA)
Weslaco	–	20	7	0.9	7.8	0.8	1.7	5.9	34.6	46.6	80.4	0.5	0.5	15.1
Wichita Falls	–	142	46	6.9	73.2	5.5	10.2	49.1	175.0	166.0	340.0	33.3	4.2	59.5
Winters	–	4	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Woodville	–	25	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Yoakum	E1	21	8	1.2	9.6	0.8	1.5	5.0	20.3	34.8	51.7	(D)	0.5	5.7

– Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	–	**18 107**	**5 644**	**886.4**	**11 653.1**	**600.7**	**1 190.1**	**6 626.4**	**33 080.9**	**60 395.8**	**92 735.7**	**5 194.7**	**735.6**	**15 253.0**
20	**Food and kindred products**	–	**1 507**	**616**	**84.8**	**961.2**	**57.6**	**116.5**	**581.6**	**3 040.7**	**8 494.6**	**11 494.7**	**251.9**	**77.5**	**1 716.6**
201	Meat products	–	315	124	21.6	223.3	18.1	36.9	174.7	502.9	3 521.7	4 024.7	46.5	17.1	258.5
2011	Meat packing plants	–	201	66	12.7	148.9	10.5	21.9	118.4	347.5	2 882.3	3 233.2	15.1	10.0	183.7
2013	Sausages and other prepared meats	–	76	32	3.4	39.7	2.5	5.1	26.5	95.6	346.8	439.9	(D)	EE	(D)
2016	Poultry dressing plants	–	25	21	5.2	32.7	4.8	9.4	28.3	54.9	274.7	329.2	19.6	5.3	45.7
2017	Poultry and egg processing	E5	13	5	0.3	2.0	0.2	0.5	1.6	4.9	18.0	22.5	(D)	(NA)	(NA)
202	Dairy products	–	98	58	6.6	74.4	2.8	6.2	28.3	228.2	562.7	788.7	16.0	7.4	140.5
2024	Ice cream and frozen desserts	–	28	12	1.0	10.0	0.5	1.1	4.9	30.4	49.6	79.9	(D)	CC	(D)
2026	Fluid milk	–	59	42	5.5	62.3	2.2	4.7	22.0	191.6	467.3	658.4	12.5	6.2	119.1
203	Preserved fruits and vegetables	–	93	40	7.0	65.3	5.8	11.7	49.8	248.5	406.8	655.0	17.9	6.9	130.1
2032	Canned specialties	–	16	10	2.9	28.3	2.3	4.8	20.8	122.3	191.7	313.8	7.3	FF	(D)
2033	Canned fruits and vegetables	–	26	10	1.5	11.8	1.4	2.5	9.3	39.5	70.5	110.0	1.5	1.5	23.4
2035	Pickles, sauces, and salad dressings	–	19	4	1.1	13.6	0.9	1.8	11.5	63.8	104.6	168.5	(D)	1.1	13.4
2037	Frozen fruits and vegetables	E1	5	5	0.5	2.7	0.4	1.0	2.2	5.6	11.1	16.7	(D)	BB	(D)
2038	Frozen specialties	E1	22	10	0.8	7.8	0.7	1.4	5.2	14.7	25.1	39.8	2.5	1.1	15.7
204	Grain mill products	–	201	76	7.4	92.3	5.1	10.4	52.8	315.5	1 001.9	1 313.0	33.8	7.6	208.1
2041	Flour and other grain mill products	–	16	6	0.7	7.6	0.6	1.2	5.0	25.7	82.7	108.6	(D)	0.9	24.6
2044	Rice milling	–	10	8	1.6	25.9	1.2	2.4	13.7	132.2	347.2	477.1	10.5	1.3	76.8
2045	Blended and prepared flour	–	9	5	0.8	9.8	0.5	1.0	6.3	40.6	48.1	88.5	1.3	CC	(D)
2046	Wet corn milling	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2047	Dog, cat, and other pet food	–	11	5	0.6	5.0	0.5	1.0	3.4	12.0	32.8	44.9	(D)	BB	(D)
2048	Prepared feeds, n.e.c.	–	153	50	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	74.3
205	Bakery products	–	156	68	11.8	140.5	7.0	13.5	71.9	345.9	266.6	612.6	15.7	10.4	179.9
2051	Bread, cake, and related products	–	144	61	10.6	125.8	6.0	11.3	59.4	286.5	233.4	519.8	(D)	FF	(D)
2052	Cookies and crackers	–	12	7	1.2	14.7	1.1	2.2	12.5	59.4	33.2	92.9	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
20	**Food and kindred products**—Con.													
206	Sugar and confectionery products	-	48	14	2.8	34.6	2.1	4.5	22.2	102.0	189.1	283.8	14.4	2.8	55.2
2061	Raw cane sugar	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2062	Cane sugar refining	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2063	Beet sugar	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2065	Confectionery products	E1	45	11	1.6	17.0	1.2	2.5	10.3	45.5	66.3	113.0	(D)	EE	(D)
207	Fats and oils	-	78	37	4.1	45.2	3.1	7.0	32.6	191.3	639.4	813.5	13.7	3.4	93.5
2074	Cottonseed oil mills	-	27	18	1.8	17.3	1.4	3.3	12.4	74.5	235.4	296.6	5.9	1.5	33.8
2077	Animal and marine fats and oils	-	37	11	0.8	7.9	0.5	1.3	5.2	27.3	62.6	88.8	3.0	CC	(D)
2079	Shortening and cooking oils	-	8	7	1.4	19.4	1.1	2.3	14.5	85.3	326.1	408.9	4.6	1.3	45.8
208	Beverages	-	180	111	14.4	188.3	6.5	13.0	81.1	717.0	978.2	1 689.8	72.8	12.4	353.4
2082	Malt beverages	-	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2086	Bottled and canned soft drinks	-	153	99	11.0	119.4	4.0	8.1	32.7	356.0	495.4	846.4	56.7	9.5	141.3
2087	Flavoring extracts and sirups, n.e.c.	-	15	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
209	Miscellaneous foods and kindred products	-	338	88	9.1	97.2	7.1	13.3	68.1	389.6	928.2	1 313.5	21.1	9.6	297.3
2092	Fresh or frozen packaged fish	E1	35	14	1.3	8.2	1.2	1.9	6.2	14.5	89.9	104.4	(D)	2.3	23.8
2095	Roasted coffee	-	9	5	1.2	22.2	0.9	2.1	17.5	98.4	600.2	694.3	7.5	1.3	114.3
2097	Manufactured ice	E1	76	11	0.8	6.5	0.5	1.0	3.3	17.3	4.9	22.3	4.0	1.0	13.7
2099	Food preparations, n.e.c.	E1	208	55	5.6	59.1	4.3	8.0	40.4	254.3	226.9	481.3	7.6	4.9	144.0
22	**Textile mill products**	-	**113**	**40**	**7.1**	**60.7**	**6.3**	**12.8**	**49.2**	**140.0**	**168.2**	**304.5**	**22.2**	**6.4**	**62.6**
2211	Weaving mills, cotton	-	9	4	1.2	9.7	1.1	2.1	8.5	11.1	29.3	40.1	7.0	EE	(D)
2221	Weaving mills, manmade fiber and silk	-	12	7	3.3	29.9	2.9	6.1	25.1	58.2	71.4	129.5	(D)	EE	(D)
2231	Weaving and finishing mills, wool	E1	8	2	0.3	2.0	0.3	0.5	1.7	3.1	1.8	4.7	(D)	AA	(D)
225	Knitting mills	E1	16	8	0.8	6.4	0.7	1.4	5.0	15.0	7.9	22.5	(D)	1.0	6.5
2253	Knit outerwear mills	E2	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2254	Knit underwear mills	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
229	Miscellaneous textile goods	-	46	13	1.3	10.0	1.1	2.2	7.2	48.8	49.1	93.9	(D)	1.0	11.1
2293	Paddings and upholstery filling	-	6	2	0.3	2.5	0.2	0.5	1.7	4.1	9.2	13.3	0.1	AA	(D)
2297	Nonwoven fabrics	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2299	Textile goods, n.e.c.	E1	18	4	0.3	2.2	0.3	0.5	1.8	3.7	2.8	6.5	0.1	AA	(D)
23	**Apparel and other textile products**	-	**925**	**445**	**73.4**	**481.2**	**63.6**	**117.0**	**361.1**	**985.7**	**1 001.3**	**1 959.4**	**34.1**	**67.0**	**557.4**
2311	Men's and boys' suits and coats	-	19	13	3.2	22.1	2.6	5.9	14.8	3.7	53.6	40.0	(D)	1.5	11.6
232	Men's and boys' furnishings	-	131	106	30.5	189.6	27.4	49.7	154.9	420.2	431.3	852.9	(D)	33.4	276.5
2321	Men's and boys' shirts and nightwear	-	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	2.2
2327	Men's and boys' separate trousers	-	24	18	9.9	60.0	8.6	13.6	44.4	84.2	114.9	206.0	1.2	18.1	142.7
2328	Men's and boys' work clothing	-	78	70	18.3	115.6	16.8	32.3	100.0	305.0	289.0	588.5	(D)	13.0	112.1
2329	Men's and boys' clothing, n.e.c.	-	17	13	1.7	9.8	1.5	3.0	8.1	18.5	16.1	34.9	1.1	EE	(D)
233	Women's and misses' outerwear	E1	351	180	20.5	144.2	17.1	30.9	98.3	327.6	258.3	582.3	(D)	18.1	151.0
2331	Women's and misses' blouses and waists	E2	41	21	2.3	15.3	2.0	3.6	10.8	30.5	28.9	60.1	0.6	EE	(D)
2335	Women's and misses' dresses	E1	200	76	6.8	52.5	5.5	10.0	30.8	97.9	89.0	184.8	2.9	9.4	66.6
2337	Women's and misses' suits and coats	-	55	37	4.2	30.6	3.5	6.3	21.9	85.2	56.7	141.7	0.5	EE	(D)
2339	Women's and misses' outerwear, n.e.c.	E1	55	46	7.2	45.8	6.1	11.0	34.9	114.0	83.7	195.6	(D)	4.2	43.5
234	Women's and children's undergarments	-	21	17	5.0	30.6	4.4	8.2	25.0	61.4	46.1	106.1	(D)	3.4	24.0
2341	Women's and children's underwear	-	13	10	3.0	19.2	2.6	4.9	15.3	27.6	27.0	54.7	1.3	EE	(D)
2342	Brassieres and allied garments	-	8	7	2.0	11.5	1.8	3.3	9.7	33.8	19.1	51.5	(D)	EE	(D)
235	Hats, caps, and millinery	-	20	9	1.7	11.4	1.4	2.6	7.5	21.1	17.4	35.8	(D)	EE	(D)
2352	Hats and caps, except millinery	-	15	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
236	Children's outerwear	E1	34	26	3.4	20.0	3.0	5.6	15.7	35.2	31.3	65.9	(D)	2.4	18.8
2381	Children's dresses and blouses	E1	20	16	2.2	13.1	1.9	3.5	10.1	22.8	13.2	35.3	0.3	EE	(D)
2369	Children's outerwear, n.e.c.	-	13	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
23	**Apparel and other textile products**—Con.														
238	Miscellaneous apparel and accessories	–	46	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	7.5
2387	Apparel belts	–	15	13	1.3	8.4	0.9	1.4	4.5	17.9	12.8	29.6	0.2	CC	(D)
2389	Apparel and accessories, n.e.c.	E3	18	6	0.2	1.6	0.2	0.2	1.0	2.5	1.4	3.9	(Z)	AA	(D)
239	Miscellaneous fabricated textile products	E1	301	73	7.4	51.6	6.5	12.2	38.1	92.4	141.3	231.7	(D)	5.4	48.0
2391	Curtains and draperies	E1	109	17	2.2	14.2	1.9	3.6	11.1	24.0	51.6	75.2	0.5	1.6	14.3
2392	House furnishings, n.e.c.	E3	35	11	0.7	5.2	0.7	1.3	3.8	11.6	22.5	33.8	(D)	0.9	9.4
2393	Textile bags	–	13	6	0.4	3.3	0.4	0.8	2.2	6.4	15.8	21.8	0.2	BB	(D)
2394	Canvas and related products	E1	44	6	0.4	3.7	0.3	0.6	2.2	6.8	7.4	14.2	0.2	0.4	3.7
2395	Pleating and stitching	E2	29	11	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2396	Automotive and apparel trimmings	–	19	5	0.4	2.9	0.3	0.6	2.2	5.2	9.5	14.5	0.1	BB	(D)
2397	Schiffli machine embroideries	–	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2399	Fabricated textile products, n.e.c.	–	48	15	2.0	14.2	1.7	3.2	10.7	25.3	26.6	51.0	1.0	0.7	4.8
24	**Lumber and wood products**	–	**1 258**	**305**	**33.1**	**302.9**	**28.1**	**55.6**	**223.5**	**706.3**	**1 069.6**	**1 761.8**	**49.3**	**30.9**	**369.9**
2411	Logging camps and logging contractors	E2	428	14	2.2	23.3	1.9	3.4	18.5	65.6	90.4	155.3	8.1	1.6	22.8
242	Sawmills and planing mills	E1	189	62	6.0	47.2	5.3	11.0	37.9	104.9	143.6	246.2	12.6	7.3	92.6
2421	Sawmills and planing mills, general	E1	161	53	4.3	35.0	3.9	7.9	28.5	78.3	122.4	199.5	10.3	6.7	87.8
2426	Hardwood dimension and flooring	–	20	8	1.5	11.7	1.3	2.9	8.9	25.9	19.9	44.6	2.2	CC	(D)
243	Millwork, plywood, and structural members	–	315	104	12.7	119.0	10.7	21.5	87.8	290.3	412.4	698.3	16.5	10.6	119.1
2431	Millwork	–	148	55	6.1	52.8	5.0	9.2	36.1	113.7	220.5	332.0	6.3	6.2	70.5
2434	Wood kitchen cabinets	E2	136	31	2.4	19.9	2.0	3.6	14.8	34.5	31.4	65.5	2.2	2.4	18.9
2436	Softwood veneer and plywood	–	10	9	3.5	39.6	3.2	7.5	32.0	126.7	124.5	250.2	7.0	EE	(D)
2439	Structural wood members, n.e.c.	E1	20	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
244	Wood containers	–	88	33	2.3	17.6	2.0	3.6	13.1	27.8	35.5	63.1	1.7	2.4	25.3
2441	Nailed wood boxes and shook	–	22	10	0.6	4.7	0.5	0.9	3.2	9.2	11.1	20.2	(D)	0.9	7.8
2448	Wood pallets and skids	–	56	19	1.3	10.6	1.1	2.1	7.9	16.5	20.7	37.0	1.2	CC	(D)
2449	Wood containers, n.e.c.	–	10	4	0.4	2.3	0.3	0.6	1.9	2.1	3.7	5.9	(D)	CC	(D)
245	Wood buildings and mobile homes	–	80	55	7.3	71.1	6.0	11.5	48.1	151.7	297.9	441.4	7.3	6.5	79.9
2451	Mobile homes	–	57	44	5.9	54.0	4.9	9.6	39.0	105.9	233.9	338.2	6.2	6.0	71.6
2452	Prefabricated wood buildings	–	23	11	1.4	17.1	1.0	1.9	9.1	45.8	64.0	103.1	1.1	0.6	8.3
249	Miscellaneous wood products	E1	158	37	2.6	24.8	2.2	4.6	18.1	66.0	89.7	157.6	3.2	2.5	30.2
2491	Wood preserving	–	22	12	0.7	7.5	0.6	1.3	5.0	17.9	36.2	51.9	1.0	CC	(D)
2492	Particleboard	–	5	3	0.3	2.8	0.2	0.5	2.1	12.3	13.2	25.7	0.4	AA	(D)
2499	Wood products, n.e.c.	E1	131	22	1.6	14.5	1.4	2.8	10.9	35.8	40.4	80.1	1.7	1.5	17.5
25	**Furniture and fixtures**	–	**512**	**184**	**17.4**	**148.1**	**14.4**	**26.8**	**103.3**	**305.5**	**312.3**	**610.7**	**13.8**	**16.1**	**198.3**
251	Household furniture	–	288	109	10.8	85.1	9.3	17.2	63.2	175.2	198.3	368.7	6.5	10.4	120.3
2511	Wood household furniture	E1	118	29	3.8	27.4	3.3	6.2	21.2	50.3	49.2	98.6	2.6	2.7	30.3
2512	Upholstered household furniture	–	65	40	3.4	27.9	3.0	5.3	20.6	46.6	56.6	103.0	1.0	3.5	34.2
2514	Metal household furniture	–	16	7	1.3	8.4	1.2	2.0	7.2	21.3	21.6	40.7	0.3	1.7	19.9
2515	Mattresses and bedsprings	–	74	28	2.1	19.3	1.6	3.1	12.6	53.2	66.5	118.2	2.1	EE	(D)
2519	Household furniture, n.e.c.	E3	12	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
252	Office furniture	–	27	13	1.3	11.4	1.0	1.9	7.3	26.4	24.6	50.3	1.6	CC	(D)
2521	Wood office furniture	–	21	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2522	Metal office furniture	–	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2531	Public building and related furniture	–	28	15	1.9	14.6	1.5	2.9	9.8	27.7	29.0	56.5	1.2	2.2	23.0
254	Partitions and fixtures	E1	105	32	2.4	28.0	1.8	3.5	17.3	58.1	45.9	103.3	3.8	2.2	31.2
2541	Wood partitions and fixtures	E2	90	23	1.5	17.7	1.2	2.3	11.4	37.5	18.9	56.0	1.5	EE	(D)
2542	Metal partitions and fixtures	–	15	9	0.9	10.3	0.7	1.2	5.9	20.5	27.1	47.3	2.3	CC	(D)
259	Miscellaneous furniture and fixtures	–	64	15	0.9	9.0	0.8	1.3	5.7	18.1	14.4	32.0	0.7	CC	(D)
2591	Drapery hardware and blinds and shades	E1	38	5	0.4	3.1	0.3	0.5	2.1	7.5	7.6	14.9	0.3	0.2	4.6
2599	Furniture and fixtures, n.e.c.	–	26	10	0.5	5.9	0.4	0.9	3.7	10.6	6.8	17.1	0.4	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
26	**Paper and allied products**	-	**253**	**140**	**19.8**	**272.0**	**14.5**	**30.0**	**178.1**	**663.0**	**919.9**	**1 580.9**	**178.2**	**17.6**	**342.0**
2621	Paper mills, except building paper	-	6	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2631	Paperboard mills	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
264	Miscellaneous converted paper products	-	122	52	5.9	66.5	4.4	8.9	44.6	171.3	219.5	390.0	15.2	5.5	86.5
2641	Paper coating and glazing	-	28	6	0.7	8.0	0.5	1.0	5.1	17.7	32.8	50.7	2.6	BB	(D)
2642	Envelopes	-	14	11	1.1	12.9	0.8	1.6	8.2	24.4	24.9	49.4	0.7	EE	(D)
2643	Bags, except textile bags	-	28	19	2.7	31.0	2.1	4.2	21.9	93.4	114.7	207.8	9.5	2.5	35.7
2645	Die-cut paper and board	-	8	3	0.3	2.8	0.2	0.4	2.0	2.3	10.4	12.6	(D)	BB	(D)
2648	Stationery products	-	7	5	0.5	5.6	0.4	0.9	4.1	16.7	21.0	37.1	1.5	0.6	9.9
2649	Converted paper products, n.e.c.	E1	33	7	0.5	5.6	0.3	0.7	2.7	15.6	14.8	30.4	0.8	CC	(D)
265	Paperboard containers and boxes	-	116	76	7.2	84.1	5.4	11.1	55.0	175.9	319.9	494.4	31.7	6.8	107.5
2651	Folding paperboard boxes	-	17	8	0.8	9.4	0.6	1.3	6.4	22.0	27.0	48.7	3.3	CC	(D)
2652	Setup paperboard boxes	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2653	Corrugated and solid fiber boxes	-	77	52	4.9	59.8	3.5	7.3	38.0	118.9	230.0	347.8	25.5	4.3	66.0
2654	Sanitary food containers	-	6	5	0.9	8.9	0.8	1.5	6.3	22.7	39.9	62.6	2.0	1.0	20.6
2655	Fiber cans, drums, and similar products	-	14	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	7.8
27	**Printing and publishing**	**E1**	**2 735**	**405**	**47.4**	**525.6**	**27.5**	**51.2**	**278.1**	**1 159.9**	**662.9**	**1 819.4**	**61.6**	**40.6**	**655.3**
2711	Newspapers	-	607	103	19.2	200.8	7.5	13.3	77.6	506.7	207.1	713.8	26.2	17.6	298.9
2721	Periodicals	E1	138	14	1.6	21.6	0.2	0.5	2.2	47.2	36.9	84.1	0.6	CC	(D)
273	Books	E1	91	25	2.9	29.2	1.9	3.5	15.4	70.1	38.9	108.8	2.8	2.2	37.7
2731	Book publishing	E2	58	9	0.9	9.7	0.2	0.4	1.7	30.6	18.8	49.1	0.8	BB	(D)
2732	Book printing	-	33	16	2.0	19.4	1.7	3.1	13.7	39.6	20.1	59.7	2.0	EE	(D)
2741	Miscellaneous publishing	E2	100	10	1.2	11.5	0.4	0.7	3.2	25.0	7.8	32.9	0.4	CC	(D)
275	Commercial printing	E2	1 540	168	14.1	165.4	10.9	20.2	113.7	310.5	235.3	544.1	22.3	12.3	176.0
2751	Commercial printing, letterpress	E4	845	37	4.2	46.2	3.4	6.1	32.6	92.7	70.4	162.8	(D)	4.0	61.6
2752	Commercial printing, lithographic	E1	629	119	9.0	110.2	6.8	13.0	74.7	199.3	151.3	349.3	13.1	7.6	106.5
2753	Engraving and plate printing	E2	45	7	0.4	3.9	0.3	0.5	2.6	8.3	3.2	11.5	0.2	CC	(D)
2754	Commercial printing, gravure	-	21	5	0.5	5.1	0.4	0.7	3.8	10.2	10.4	20.5	(D)	(NA)	(NA)
2761	Manifold business forms	-	48	32	4.3	49.9	3.1	6.6	31.8	115.0	101.7	215.9	4.4	3.4	64.3
278	Blankbooks and bookbinding	-	56	26	2.3	22.5	2.0	3.8	16.4	42.2	18.3	60.3	1.7	EE	(D)
2782	Blankbooks and looseleaf binders	-	22	17	1.4	15.0	1.2	2.3	10.7	30.5	13.6	43.9	1.2	CC	(D)
2789	Bookbinding and related work	E2	34	9	0.9	7.5	0.8	1.6	5.7	11.7	4.7	16.4	0.5	CC	(D)
279	Printing trade services	E1	155	27	1.8	24.6	1.4	2.6	17.9	42.9	16.9	59.4	3.2	1.5	25.8
2791	Typesetting	E1	106	17	1.0	12.3	0.8	1.4	9.2	20.0	3.9	23.9	1.2	0.9	13.5
2793	Photoengraving	E3	25	2	0.3	3.5	0.2	0.3	2.4	5.9	2.7	8.6	0.3	BB	(D)
2795	Lithographic platemaking services	-	24	8	0.6	8.8	0.5	0.8	6.3	17.0	10.3	26.9	1.8	AA	(D)
28	**Chemicals and allied products**	-	**843**	**314**	**67.7**	**1 264.2**	**41.4**	**84.5**	**709.0**	**7 310.0**	**10 197.8**	**17 347.0**	**2 269.2**	**FF**	**(D)**
281	Industrial inorganic chemicals	-	103	38	6.4	112.6	4.5	8.9	73.2	437.0	668.3	1 098.3	146.6	5.6	214.9
2812	Alkalies and chlorine	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2813	Industrial gases	-	51	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2819	Industrial inorganic chemicals, n.e.c.	-	45	21	3.8	67.0	2.7	5.3	44.9	194.2	416.4	596.0	45.8	3.2	103.5
282	Plastics materials and synthetics	-	43	35	10.8	213.5	7.4	15.3	138.0	981.7	2 063.1	2 989.7	435.0	9.7	476.5
2821	Plastics materials and resins	-	31	26	6.2	123.7	3.9	8.5	72.4	729.7	1 355.4	2 032.0	407.7	FF	(D)
2822	Synthetic rubber	-	10	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
283	Drugs	-	58	12	2.6	37.3	0.9	1.8	9.3	114.8	41.1	154.3	6.5	1.4	37.0
2831	Biological products	-	23	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2834	Pharmaceutical preparations	-	30	7	1.6	22.0	0.4	0.7	3.1	60.3	17.4	77.2	(D)	1.2	31.7
284	Soaps, cleaners, and toilet goods	-	132	23	2.2	28.6	1.3	2.6	16.4	184.9	183.1	366.9	6.1	2.3	125.7
2841	Soap and other detergents	-	36	10	1.0	15.0	0.6	1.2	9.4	123.8	94.3	216.8	3.2	CC	(D)
2842	Polishes and sanitation goods	-	50	8	0.6	7.4	0.4	0.8	4.0	41.5	58.0	99.0	1.6	EE	(D)
2844	Toilet preparations	E3	40	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	4.0
2851	Paints and allied products	-	87	39	3.5	47.1	1.7	3.4	18.8	179.0	246.0	422.2	38.8	3.6	102.7
286	Industrial organic chemicals	-	101	63	32.2	676.6	19.2	39.5	369.1	4 761.5	6 106.3	10 799.4	1 480.1	26.0	1 960.6
2861	Gum and wood chemicals	E3	16	2	0.2	1.8	0.1	0.3	1.4	4.7	4.4	9.0	0.7	(NA)	(NA)
2865	Cyclic crudes and intermediates	-	13	10	2.7	57.6	1.6	3.4	27.5	440.5	716.9	1 143.4	58.2	EE	(D)
2869	Industrial organic chemicals, n.e.c.	-	72	51	29.3	617.3	17.4	35.8	340.3	4 316.3	5 385.0	9 647.0	1 421.3	23.9	1 843.4

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
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		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
28	**Chemicals and allied products**—Con.													
287	Agricultural chemicals	-	118	35	4.4	72.6	3.0	5.9	42.4	321.5	507.2	809.9	124.3	3.1	117.3
2873	Nitrogenous fertilizers	-	15	6	0.6	10.1	0.4	0.9	6.7	58.5	101.4	151.3	6.8	0.8	34.9
2874	Phosphatic fertilizers	-	7	5	0.8	12.7	0.5	1.2	8.9	32.0	90.1	123.3	(D)	1.0	44.1
2875	Fertilizers, mixing only	E1	53	12	0.6	8.0	0.4	0.9	4.3	26.4	70.9	99.1	(D)	0.5	7.9
2879	Agricultural chemicals, n.e.c.	-	42	12	2.4	41.8	1.6	2.9	22.6	204.5	244.8	436.2	95.3	0.9	30.4
289	Miscellaneous chemical products	-	201	69	5.5	75.9	3.5	7.2	41.6	329.6	382.9	706.2	31.8	5.0	153.0
2891	Adhesives and sealants	-	32	9	0.5	7.1	0.3	0.6	3.0	24.6	28.6	53.0	1.3	AA	(D)
2892	Explosives	-	7	5	0.3	3.1	0.2	0.4	1.7	15.8	10.2	25.0	(D)	AA	(D)
2893	Printing ink	-	20	5	0.3	3.8	0.2	0.3	1.8	14.2	18.8	33.0	(D)	AA	(D)
2895	Carbon black	-	12	12	1.1	18.2	0.9	1.9	13.6	68.4	131.2	197.5	10.2	EE	(D)
2899	Chemical preparations, n.e.c.	-	130	38	3.3	43.7	2.0	4.0	21.5	206.6	194.1	397.8	19.0	FF	(D)
29	**Petroleum and coal products**	-	180	83	35.3	892.3	24.8	52.7	470.1	4 184.0	23 187.7	27 178.9	1 031.7	32.7	1 338.2
2911	Petroleum refining	-	76	58	32.4	653.9	23.1	49.1	450.5	4 075.2	22 946.3	26 848.4	1 021.6	30.2	1 274.4
295	Paving and roofing materials	-	49	20	2.4	31.0	1.4	3.0	15.7	89.3	147.9	236.5	6.2	2.1	49.4
2951	Paving mixtures and blocks	E1	28	4	0.3	3.1	0.2	0.5	2.1	11.9	28.7	40.3	2.3	0.3	7.4
2952	Asphalt felts and coatings	-	21	16	2.1	27.9	1.2	2.6	13.6	77.4	119.3	196.2	3.8	1.8	42.0
299	Miscellaneous petroleum and coal products	-	55	5	0.5	7.4	0.3	0.6	3.9	19.5	73.5	94.0	4.0	0.5	14.4
2992	Lubricating oils and greases	E1	50	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2999	Petroleum and coal products, n.e.c.	-	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
30	**Rubber and miscellaneous plastics products**	-	582	231	25.5	288.2	20.1	40.2	197.7	738.1	773.0	1 494.5	58.8	16.0	347.1
3011	Tires and inner tubes	-	12	7	3.7	55.8	3.0	5.9	44.1	149.5	167.5	316.2	3.9	FF	(D)
3041	Rubber and plastics hose and belting	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3069	Fabricated rubber products, n.e.c.	-	50	28	3.3	40.3	2.4	4.8	23.7	67.2	69.6	136.2	5.1	2.3	33.2
3079	Miscellaneous plastics products	-	511	192	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.6	225.3
31	**Leather and leather products**	E2	144	53	6.8	44.1	5.5	10.1	30.8	95.4	100.4	189.6	2.7	FF	(D)
3111	Leather tanning and finishing	E8	10	2	0.2	1.2	0.1	0.3	0.9	2.0	3.0	5.0	(D)	0.2	1.8
3131	Boot and shoe cut stock and findings	-	6	3	0.2	1.6	0.2	0.3	1.1	4.7	7.7	12.2	(D)	(NA)	(NA)
314	Footwear, except rubber	E2	32	17	3.4	22.7	2.9	5.4	17.0	48.7	46.8	92.6	(D)	2.7	28.3
3142	House slippers	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3143	Men's footwear, except athletic	E3	15	9	2.2	15.8	1.9	3.6	12.0	34.0	34.5	65.9	(D)	EE	(D)
3144	Women's footwear, except athletic	-	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	4.7
3151	Leather gloves and mittens	-	4	4	0.4	2.1	0.4	0.7	1.8	6.3	6.5	12.8	(D)	(NA)	(NA)
317	Handbags and other personal leather goods	E1	23	8	0.8	5.3	0.7	1.4	4.0	8.7	8.9	17.9	(D)	0.7	6.7
3171	Women's handbags and purses	E1	17	7	0.7	4.7	0.6	1.2	3.6	7.8	8.0	16.1	(D)	0.6	6.1
3199	Leather goods, n.e.c.	E1	61	16	1.5	10.8	1.1	2.0	5.7	24.1	26.4	47.2	(D)	0.6	7.7
32	**Stone, clay, and glass products**	-	1 080	347	35.6	417.2	28.9	58.0	305.5	1 157.4	1 204.7	2 359.7	158.4	30.0	609.5
3211	Flat glass	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
322	Glass and glassware, pressed or blown	-	22	7	2.8	37.0	2.6	4.7	30.9	85.0	68.2	151.5	(D)	2.4	50.6
3221	Glass containers	-	5	5	2.3	32.1	2.1	4.0	27.3	78.2	56.8	134.2	4.2	2.2	48.5
3229	Pressed and blown glass, n.e.c.	E1	17	2	0.5	4.9	0.5	0.7	3.5	6.8	11.4	17.4	(D)	(NA)	(NA)
3231	Products of purchased glass	E1	39	9	0.7	6.5	0.5	1.0	4.5	15.0	13.9	28.4	1.5	BB	(D)
3241	Cement, hydraulic	-	22	19	3.0	48.9	2.3	4.8	37.7	195.1	183.1	383.6	46.1	2.8	121.3
325	Structural clay products	-	58	41	4.5	39.4	3.8	7.7	28.9	96.6	67.3	163.1	9.4	4.3	55.4
3251	Brick and structural clay tile	-	33	26	2.4	21.7	2.1	4.5	17.6	55.6	27.6	83.1	7.2	2.1	28.1
3253	Ceramic wall and floor tile	-	11	7	1.2	9.8	1.0	1.9	5.7	20.5	27.6	47.1	0.7	EE	(D)
3255	Clay refractories	E2	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3259	Structural clay products, n.e.c.	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
32	**Stone, clay, and glass products**—Con.													
326	Pottery and related products	-	44	9	1.6	15.5	1.4	2.7	12.1	28.3	19.5	46.5	2.1	EE	(D)
3261	Vitreous plumbing fixtures	-	7	5	1.2	11.2	1.0	1.9	9.1	23.4	14.4	36.8	1.6	CC	(D)
3264	Porcelain electrical supplies	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3269	Pottery products, n.e.c.	E1	35	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
327	Concrete, gypsum, and plaster products	-	656	202	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13.6	241.1
3271	Concrete block and brick	E2	46	21	0.8	9.1	0.5	1.1	5.0	19.4	26.3	45.3	2.4	0.9	12.5
3272	Concrete products, n.e.c.	E1	230	57	4.6	48.7	3.7	7.6	33.9	110.0	95.0	201.5	7.6	4.8	73.6
3273	Ready-mixed concrete	-	364	111	8.3	103.0	6.4	13.4	72.8	260.7	441.9	702.8	42.2	6.4	115.9
3274	Lime	-	6	6	0.7	7.3	0.6	1.1	4.9	19.8	19.6	39.4	2.1	0.5	9.5
3275	Gypsum products	-	10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	29.6
3281	Cut stone and stone products	E3	70	7	0.6	5.6	0.5	1.0	4.2	10.0	6.5	16.5	0.4	0.7	7.4
329	Miscellaneous nonmetallic mineral products	-	168	52	5.8	64.0	4.8	9.5	46.3	223.4	186.7	409.6	14.6	4.6	108.2
3291	Abrasive products	-	13	7	0.9	7.4	0.7	1.4	5.1	36.5	25.2	58.2	(D)	AA	(D)
3292	Asbestos products	-	6	4	0.9	11.9	0.7	1.6	9.0	41.2	42.7	84.1	(D)	1.2	35.8
3293	Gaskets, packing, and sealing devices	-	35	19	1.9	19.4	1.6	3.1	13.1	39.5	32.1	71.2	2.3	EE	(D)
3295	Minerals, ground or treated	-	37	13	0.6	6.5	0.5	0.8	4.2	16.3	26.0	45.4	2.4	0.7	13.3
3296	Mineral wool	-	11	7	1.3	16.6	1.1	2.1	13.0	83.5	57.5	141.7	(D)	0.8	32.8
3299	Nonmetallic mineral products, n.e.c.	E5	64	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
33	**Primary metal industries**	-	**324**	**151**	**38.6**	**594.9**	**30.2**	**60.6**	**424.7**	**1 715.4**	**2 706.4**	**4 405.0**	**288.2**	**33.1**	**784.9**
331	Blast furnace and basic steel products	-	70	37	16.0	272.2	12.4	24.7	196.5	584.8	861.8	1 430.1	175.2	FF	(D)
3312	Blast furnaces and steel mills	-	31	12	13.4	239.6	10.5	20.8	174.6	522.2	694.0	1 201.6	(D)	FF	(D)
3313	Electrometallurgical products	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3315	Steel wire and related products	-	22	15	1.2	12.7	0.9	1.8	8.5	23.9	63.5	86.8	3.0	CC	(D)
3317	Steel pipe and tubes	-	13	9	1.2	17.4	0.9	1.7	11.6	35.9	91.9	126.2	2.1	EE	(D)
332	Iron and steel foundries	-	66	40	8.6	104.6	7.3	14.7	79.0	198.8	125.5	322.6	18.0	7.9	114.1
3321	Gray iron foundries	-	39	23	5.4	63.2	4.7	9.4	49.8	123.6	83.0	205.9	9.4	5.4	78.9
3322	Malleable iron foundries	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3325	Steel foundries, n.e.c.	-	20	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
333	Primary nonferrous metals	-	12	11	7.1	132.0	5.4	10.8	93.4	727.0	1 247.6	1 981.1	75.0	FF	(D)
3331	Primary copper	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3332	Primary lead	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3333	Primary zinc	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3334	Primary aluminum	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3339	Primary nonferrous metals, n.e.c.	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3341	Secondary nonferrous metals	-	25	9	1.1	15.5	0.7	1.4	8.4	35.7	99.6	132.6	5.4	0.8	27.9
335	Nonferrous rolling and drawing	-	29	17	2.9	39.3	2.1	4.2	25.2	108.5	321.3	428.2	6.6	2.8	56.8
3351	Copper rolling and drawing	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3354	Aluminum extruded products	-	8	5	0.8	9.5	0.6	1.2	6.2	18.9	51.3	69.8	1.5	CC	(D)
3356	Nonferrous rolling and drawing, n.e.c.	E1	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3357	Nonferrous wire drawing and insulating	-	9	7	1.5	21.3	1.0	2.0	12.6	67.0	120.8	186.7	3.9	1.4	29.6
336	Nonferrous foundries	-	73	21	1.9	19.0	1.6	3.3	14.4	35.6	34.3	69.6	2.4	0.9	10.7
3361	Aluminum foundries	-	46	16	1.5	15.4	1.3	2.7	11.8	25.5	24.7	49.7	1.9	0.5	5.8
3362	Brass, bronze, and copper foundries	-	21	5	0.4	3.5	0.3	0.6	2.6	9.9	9.3	19.4	0.4	0.4	4.3
339	Miscellaneous primary metal products	E1	49	16	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	10.6
3398	Metal heat treating	-	29	14	0.8	10.4	0.5	1.2	6.4	21.6	9.0	30.2	5.3	CC	(D)
3399	Primary metal products, n.e.c.	E2	20	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
34	**Fabricated metal products**	-	**1 933**	**707**	**78.3**	**988.4**	**59.2**	**119.1**	**658.3**	**2 234.9**	**2 459.3**	**4 666.6**	**159.1**	**67.3**	**1 049.5**
341	Metal cans and shipping containers	-	39	31	4.6	80.8	3.8	8.1	63.5	241.8	455.6	693.4	12.2	4.0	137.1
3411	Metal cans	-	25	22	3.6	67.8	3.0	6.5	54.1	207.0	404.4	607.8	9.5	3.3	123.4
3412	Metal barrels, drums, and pails	-	14	9	1.0	13.0	0.8	1.6	9.4	34.8	51.2	85.5	2.7	0.7	13.7
342	Cutlery, hand tools, and hardware	E1	70	18	1.6	15.6	1.3	2.3	10.3	34.4	35.1	68.8	4.2	0.6	8.4
3423	Hand and edge tools, n.e.c.	-	23	4	0.8	8.1	0.6	1.2	5.3	18.4	17.4	35.1	1.8	(NA)	(NA)
3429	Hardware, n.e.c.	E2	43	14	0.8	7.3	0.6	1.1	4.9	15.7	17.5	33.1	2.3	CC	(D)
343	Plumbing and heating, except electric	-	48	17	2.5	26.5	1.8	3.6	16.1	61.2	76.0	135.4	(D)	EE	(D)
3431	Metal sanitary ware	-	10	2	0.4	4.9	0.3	0.6	3.2	9.5	11.5	20.6	(D)	BB	(D)
3432	Plumbing fittings and brass goods	-	9	4	0.9	7.6	0.8	1.6	6.2	23.7	39.0	60.2	1.7	CC	(D)
3433	Heating equipment, except electric	E1	29	11	1.1	14.1	0.7	1.4	6.7	28.1	25.5	54.7	0.7	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
34	**Fabricated metal products**—Con.													
344	Fabricated structural metal products	–	928	362	36.7	438.9	27.3	55.6	283.5	924.0	1 135.1	2 065.3	59.9	29.2	431.8
3441	Fabricated structural metal	–	176	104	9.9	119.5	7.4	15.8	77.4	229.4	286.2	513.5	18.2	8.1	102.8
3442	Metal doors, sash, and trim	–	105	36	4.9	43.6	4.0	8.4	29.3	93.0	125.3	216.5	3.6	FF	(D)
3443	Fabricated plate work (boiler shops)	–	185	106	11.0	150.7	8.3	16.6	102.4	338.3	313.5	661.8	24.2	8.0	127.7
3444	Sheet metal work	E2	235	59	4.4	48.4	3.2	6.1	31.1	93.9	130.1	222.5	4.6	3.9	65.0
3446	Architectural metal work	E1	123	12	1.7	16.4	1.3	2.6	10.6	33.7	30.9	64.7	1.3	1.0	12.2
3448	Prefabricated metal buildings	E1	63	25	2.9	36.9	2.0	3.8	20.3	88.9	137.2	225.5	3.4	CC	(D)
3449	Miscellaneous metal work	–	41	20	1.8	23.3	1.1	2.3	12.4	46.9	111.9	160.8	4.7	1.9	35.1
345	Screw machine products, bolts, etc.	E2	47	23	1.8	22.3	1.3	2.7	14.3	56.9	41.1	98.1	2.7	1.0	15.8
3451	Screw machine products	E1	17	9	0.4	5.2	0.3	0.7	3.5	11.6	8.6	19.9	0.6	0.3	4.1
3452	Bolts, nuts, rivets, and washers	E2	30	14	1.4	17.1	1.0	2.0	10.8	45.3	32.5	78.2	2.1	0.7	11.7
346	Metal forgings and stampings	–	103	40	4.0	53.3	3.1	6.3	36.8	149.0	138.0	282.2	23.3	2.5	43.6
3462	Iron and steel forgings	–	32	17	2.4	36.3	1.9	3.9	25.2	112.6	108.8	216.6	21.5	1.3	27.9
3465	Automotive stampings	E1	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3469	Metal stampings, n.e.c.	E2	60	20	1.3	14.4	1.0	2.0	9.9	28.8	21.8	50.2	(D)	0.7	9.7
347	Metal services, n.e.c.	E1	245	62	4.8	53.0	4.0	8.5	40.4	111.6	61.3	172.0	7.6	FF	(D)
3471	Plating and polishing	E2	133	22	1.6	15.7	1.3	2.6	11.4	29.2	11.4	41.0	1.2	EE	(D)
3479	Metal coating and allied services	–	112	40	3.2	37.3	2.7	5.8	29.0	82.4	49.8	130.9	6.3	2.5	39.4
348	Ordnance and accessories, n.e.c.	–	23	5	4.5	59.8	3.0	4.7	28.9	101.6	13.1	118.9	(D)	9.7	75.8
3483	Ammunition, except for small arms, n.e.c.	–	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3489	Ordnance and accessories, n.e.c.	–	8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
349	Miscellaneous fabricated metal products	–	430	149	18.0	238.3	13.6	27.3	164.4	554.3	504.0	1 032.5	46.0	14.5	250.6
3493	Steel springs, except wire	–	8	3	0.3	3.9	0.2	0.4	2.4	8.4	5.4	13.7	(D)	(NA)	(NA)
3494	Valves and pipe fittings	–	97	53	8.6	115.7	6.3	13.0	78.9	278.1	236.3	499.0	23.4	7.3	120.4
3495	Wire springs	–	12	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3496	Miscellaneous fabricated wire products	E4	63	15	1.2	10.0	1.0	1.9	6.8	25.6	34.2	58.8	1.1	1.7	23.8
3497	Metal foil and leaf	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3498	Fabricated pipe and fittings	–	69	38	4.9	80.2	3.8	7.6	56.8	174.8	170.5	338.1	14.0	2.5	59.4
3499	Fabricated metal products, n.e.c.	E2	180	32	2.3	22.1	1.8	3.5	14.6	49.7	47.1	95.1	7.1	2.2	34.3
35	**Machinery, except electrical**	–	**2 794**	**713**	**115.4**	**1 587.4**	**77.2**	**154.7**	**905.3**	**3 862.1**	**3 015.5**	**6 831.5**	**331.8**	**70.8**	**1 449.9**
351	Engines and turbines	–	23	11	1.9	26.6	1.0	2.5	13.5	43.3	126.9	173.9	2.9	0.5	9.3
3519	Internal combustion engines, n.e.c.	–	20	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
352	Farm and garden machinery	E1	137	39	3.4	38.6	2.5	4.9	22.9	93.5	130.3	221.2	7.7	1.9	28.7
3523	Farm machinery and equipment	E2	132	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3524	Lawn and garden equipment	–	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
353	Construction and related machinery	–	395	214	49.0	710.5	33.7	70.7	448.5	1 870.9	1 286.1	3 171.5	174.1	31.5	640.0
3531	Construction machinery	–	61	32	4.4	56.8	3.3	6.8	38.5	109.4	139.9	247.7	6.5	4.8	82.7
3532	Mining machinery	–	12	7	0.7	9.0	0.6	1.2	6.2	31.3	33.0	64.9	4.8	CC	(D)
3533	Oil field machinery	–	237	133	39.8	594.2	26.9	57.1	373.5	1 632.5	1 011.5	2 659.5	158.7	FF	(D)
3534	Elevators and moving stairways	–	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3535	Conveyors and conveying equipment	–	31	18	2.0	22.1	1.2	2.5	11.9	41.1	47.2	89.5	2.1	1.4	17.5
3536	Hoists, cranes, and monorails	E1	17	10	0.9	11.4	0.7	1.3	7.3	24.4	22.0	45.7	0.5	0.5	11.2
3537	Industrial trucks and tractors	E1	32	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
354	Metalworking machinery	E1	196	37	3.7	44.6	2.7	5.2	27.9	99.6	44.0	145.1	5.1	EE	(D)
3541	Machine tools, metal cutting types	E1	17	2	0.2	2.4	0.1	0.2	1.7	4.8	1.9	7.0	0.1	BB	(D)
3542	Machine tools, metal forming types	E3	10	4	0.2	2.2	0.1	0.3	1.4	3.8	2.6	6.4	(D)	0.2	2.8
3544	Special dies, tools, jigs, and fixtures	E3	127	15	1.1	14.6	0.9	1.9	10.6	20.9	11.5	32.0	1.9	0.6	9.2
3545	Machine tool accessories	–	28	9	0.4	5.6	0.4	0.6	3.4	16.8	5.7	22.0	0.5	BB	(D)
3546	Power driven hand tools	E1	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3549	Metalworking machinery, n.e.c.	–	10	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
355	Special industry machinery	–	137	42	4.7	67.2	3.1	6.3	34.9	149.3	104.9	251.6	12.4	3.5	65.8
3551	Food products machinery	–	37	13	1.0	12.8	0.6	1.3	7.0	23.5	18.7	41.2	1.1	0.7	10.4
3553	Woodworking machinery	E1	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3555	Printing trades machinery	–	11	4	0.8	11.3	0.5	1.0	6.1	35.2	25.5	61.2	(D)	CC	(D)
3559	Special industry machinery, n.e.c.	–	74	22	2.7	39.5	1.8	3.6	19.9	83.9	55.1	137.0	7.2	1.9	30.7

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
35	**Machinery, except electrical**—Con.														
356	General industrial machinery	–	265	92	9.0	116.3	6.4	12.5	72.7	272.4	227.6	491.6	16.0	5.6	95.6
3561	Pumps and pumping equipment	–	64	32	3.7	52.4	2.6	5.2	33.5	134.2	112.3	243.0	6.3	3.0	58.6
3563	Air and gas compressors	–	20	9	0.8	10.7	0.6	1.2	6.5	28.9	26.5	53.2	3.1	BB	(D)
3564	Blowers and fans	–	32	15	1.1	12.5	0.8	1.5	7.5	25.0	25.3	50.9	1.1	CC	(D)
3567	Industrial furnaces and ovens	E2	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3568	Power transmission equipment, n.e.c.	–	10	8	0.8	10.9	0.6	1.3	7.6	24.3	14.3	37.0	1.4	CC	(D)
3569	General industrial machinery, n.e.c.	E1	84	23	2.0	22.8	1.4	2.5	13.2	46.2	42.6	87.2	3.4	0.9	12.4
357	Office and computing machines	–	52	21	16.3	256.8	7.0	12.9	67.4	598.5	427.4	993.3	78.5	FF	(D)
3573	Electronic computing equipment	–	41	14	6.5	96.0	2.5	4.9	28.4	240.7	111.8	346.3	(D)	FF	(D)
3574	Calculating and accounting machines	–	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3579	Office machines, n.e.c. and typewriters	–	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
358	Refrigeration and service machinery	–	179	71	13.6	147.2	9.9	17.8	91.3	405.1	503.1	894.9	12.8	10.6	240.7
3581	Automatic merchandising machines	E1	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3582	Commercial laundry equipment	–	9	5	0.6	6.3	0.4	0.8	3.6	15.4	13.9	28.6	(D)	BB	(D)
3585	Refrigeration and heating equipment	–	102	46	10.9	118.8	8.1	14.5	75.1	348.7	443.3	777.3	10.9	8.9	215.0
3586	Measuring and dispensing pumps	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3589	Service industry machinery, n.e.c.	–	57	15	1.3	15.8	0.9	1.6	8.6	28.4	34.4	66.2	1.7	EE	(D)
359	Miscellaneous machinery, except electrical	E2	1 410	186	13.8	179.6	10.9	21.9	126.2	329.5	165.2	488.5	22.2	9.2	147.5
3592	Carburetors, pistons, rings, and valves	E1	9	5	0.2	2.7	0.2	0.3	1.6	5.3	2.3	7.6	0.2	BB	(D)
3599	Machinery, except electrical, n.e.c.	E2	1 401	181	13.5	176.9	10.7	21.6	124.5	324.3	162.9	480.9	22.0	FF	(D)
36	**Electric and electronic equipment**	–	**674**	**220**	**67.8**	**891.9**	**43.0**	**86.0**	**462.0**	**2 061.0**	**1 461.3**	**3 452.6**	**185.1**	**54.6**	**938.9**
361	Electric distributing equipment	–	47	20	2.2	26.0	1.6	3.2	15.7	59.9	76.6	135.8	(D)	1.5	26.7
3612	Transformers	–	14	7	0.7	6.1	0.5	1.0	4.1	15.0	17.9	31.8	(D)	(NA)	(NA)
3613	Switchgear and switchboard apparatus	–	33	13	1.5	19.9	1.1	2.2	11.7	44.9	58.7	103.9	0.8	1.4	24.9
362	Electrical industrial apparatus	E1	76	24	2.2	31.0	1.3	2.6	14.8	54.8	58.4	106.6	8.5	EE	(D)
3621	Motors and generators	E1	10	6	0.5	7.2	0.3	0.6	2.7	11.6	22.8	32.3	(D)	CC	(D)
3622	Industrial controls	E1	54	12	1.1	15.9	0.7	1.4	8.3	28.3	23.7	49.8	1.3	CC	(D)
3623	Welding apparatus, electric	–	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3629	Electrical industrial apparatus, n.e.c.	E3	7	3	0.2	2.7	0.2	0.3	1.9	3.8	4.1	7.8	(D)	AA	(D)
363	Household appliances	–	29	5	1.3	10.6	1.1	2.1	8.1	38.7	52.4	89.4	1.7	1.4	18.8
3631	Household cooking equipment	E3	9	2	0.2	1.5	0.1	0.2	0.9	5.2	5.4	10.4	0.4	BB	(D)
3634	Electric housewares and fans	–	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	6.7
3635	Household vacuum cleaners	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
364	Electric lighting and wiring equipment	–	58	22	2.3	24.5	1.6	3.1	13.5	64.1	64.8	128.7	2.0	3.1	54.0
3643	Current-carrying wiring devices	E1	13	2	0.3	3.2	0.2	0.4	2.0	12.6	5.3	17.9	0.3	CC	(D)
3644	Noncurrent-carrying wiring devices	–	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3645	Residential lighting fixtures	–	18	5	0.5	4.2	0.4	0.7	2.5	9.7	13.1	22.6	0.3	BB	(D)
3646	Commercial lighting fixtures	–	7	5	0.4	4.0	0.2	0.5	2.1	8.9	14.0	23.7	0.3	0.6	7.7
3647	Vehicular lighting equipment	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3648	Lighting equipment, n.e.c.	–	8	6	0.6	7.7	0.4	0.8	3.6	22.1	16.7	38.3	0.8	CC	(D)
365	Radio and TV receiving equipment	–	47	8	2.6	20.3	2.3	4.0	15.6	66.1	101.7	161.9	(D)	EE	(D)
3651	Radio and TV receiving sets	–	26	5	2.5	18.8	2.2	3.8	14.6	63.3	98.5	156.0	(D)	EE	(D)
366	Communication equipment	–	146	61	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3661	Telephone and telegraph apparatus	–	13	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3662	Radio and TV communication equipment	–	133	53	25.6	384.2	12.9	25.9	146.1	794.0	407.8	1 192.4	74.8	FF	(D)
367	Electronic components and accessories	–	200	53	24.1	301.1	16.6	33.8	184.1	676.5	371.6	1 021.7	70.9	FF	(D)
3671	Electron tubes, all types	E1	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3674	Semiconductors and related devices	–	36	16	19.5	255.0	13.0	26.9	156.7	568.6	305.3	849.9	65.7	FF	(D)
3675	Electronic capacitors	–	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3676	Electronic resistors	–	3	3	1.1	9.9	0.7	1.5	5.6	24.4	13.6	36.5	2.0	CC	(D)
3677	Electronic coils and transformers	–	8	5	0.4	2.5	0.3	0.6	1.9	4.7	4.4	9.1	0.1	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
36	**Electric and electronic equipment**—Con.														
367	Electronic components and accessories—Con.														
3678	Electronic connectors	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3679	Electronic components, n.e.c.	E3	141	24	2.1	23.5	1.6	3.1	12.7	46.7	33.1	79.7	2.3	EE	(D)
369	Miscellaneous electrical equipment and supplies	–	71	27	3.8	43.2	2.8	5.5	28.5	108.4	105.8	208.3	7.9	3.8	69.9
3691	Storage batteries	–	16	9	1.8	22.7	1.5	3.0	17.4	52.1	72.7	121.3	4.5	1.7	30.7
3693	X-ray, electromedical, and electrotheraputic apparatus	–	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3694	Engine electrical equipment	E1	16	8	0.5	4.1	0.4	0.7	3.1	8.1	6.3	14.2	0.5	0.3	3.4
3699	Electrical equipment and supplies, n.e.c.	E2	34	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
37	**Transportation equipment**	–	635	198	61.1	947.0	39.2	77.7	534.2	2 023.6	2 188.6	4 105.2	62.8	67.4	1 260.6
371	Motor vehicles and equipment	–	242	81	13.6	194.1	10.9	23.4	148.5	456.6	1 234.7	1 683.8	(D)	11.0	286.7
3711	Motor vehicles and car bodies	–	15	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3713	Truck and bus bodies	–	34	16	1.3	13.3	1.0	2.0	9.1	26.7	27.4	54.5	1.9	(NA)	(NA)
3714	Motor vehicle parts and accessories	E2	148	35	3.7	38.7	2.7	5.5	25.4	87.2	108.3	191.6	5.1	3.1	48.9
3715	Truck trailers	–	39	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3716	Motor homes produced on purchased chassis	–	6	6	0.7	6.7	0.6	1.1	4.0	11.4	41.5	52.1	0.4	(NA)	(NA)
372	Aircraft and parts	–	72	30	32.7	580.2	16.7	33.4	265.2	1 252.7	637.5	1 797.2	(D)	FF	(D)
3721	Aircraft	–	24	13	30.1	547.7	14.6	29.6	243.3	1 190.1	608.5	1 707.9	27.8	FF	(D)
3724	Aircraft engines and engine parts	E1	10	4	0.5	5.4	0.4	0.8	3.7	9.0	3.1	11.6	0.1	EE	(D)
3728	Aircraft equipment, n.e.c.	–	38	13	2.1	27.0	1.6	3.0	18.2	53.5	25.9	77.8	(D)	EE	(D)
373	Ship and boat building and repairing	–	189	53	11.0	131.2	8.6	15.3	92.0	212.2	149.6	360.6	(D)	12.6	126.6
3731	Ship building and repairing	–	54	29	7.9	101.0	6.3	10.8	73.0	155.9	85.8	241.6	6.6	FF	(D)
3732	Boat building and repairing	E1	135	24	3.1	30.2	2.3	4.4	19.1	56.4	63.9	118.9	(D)	FF	(D)
3743	Railroad equipment	–	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
376	Guided missiles, space vehicles, parts	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3764	Space propulsion units and parts	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
379	Miscellaneous transportation equipment	–	112	30	2.5	23.1	2.0	3.7	16.0	53.5	100.9	154.1	(D)	3.6	46.2
3792	Travel trailers and campers	–	63	16	1.3	12.3	1.1	1.9	8.5	28.8	60.7	89.9	1.2	2.4	28.5
3799	Transportation equipment, n.e.c.	E1	48	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	17.7
38	**Instruments and related products**	E1	352	105	14.1	151.6	9.7	18.5	82.9	435.7	276.3	699.2	24.7	8.6	177.0
3811	Engineering and scientific instruments	E4	43	14	1.2	14.6	0.9	1.8	8.8	30.6	18.0	47.1	1.5	1.5	21.8
382	Measuring and controlling devices	E1	120	43	4.1	50.3	2.7	5.0	25.0	128.4	64.6	185.3	8.1	2.8	51.4
3822	Environmental controls	E6	9	5	0.3	3.7	0.3	0.5	2.4	7.6	3.5	10.8	(D)	0.2	2.8
3823	Process control instruments	E2	33	14	1.4	16.6	0.9	1.7	7.7	43.4	24.8	66.0	2.3	BB	(D)
3824	Fluid meters and counting devices	–	6	3	0.3	4.1	0.2	0.4	2.2	9.0	3.8	12.3	(D)	BB	(D)
3825	Instruments to measure electricity	E1	31	10	1.2	14.5	0.8	1.4	6.2	35.1	19.1	52.1	3.1	1.3	21.9
3829	Measuring and controlling devices, n.e.c.	E1	41	11	0.9	11.4	0.6	1.1	6.4	33.3	13.5	44.1	1.6	0.6	6.2
3832	Optical instruments and lenses	–	19	7	1.5	15.7	1.1	2.1	9.0	29.5	16.9	46.8	1.2	0.6	9.5
384	Medical instruments and supplies	–	114	25	4.4	44.0	3.0	5.8	23.9	186.7	86.4	268.3	9.7	EE	(D)
3841	Surgical and medical instruments	E2	32	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3842	Surgical appliances and supplies	–	63	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3851	Ophthalmic goods	E1	28	6	0.5	4.3	0.4	0.8	3.0	12.9	6.1	18.9	0.6	0.2	2.6
3861	Photographic equipment and supplies	E2	21	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3873	Watches, clocks, and watchcases	–	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
39	**Miscellaneous manufacturing industries**	**E1**	**733**	**130**	**FF**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**10.0**	**132.9**
391	Jewelry, silverware, and plated ware	-	82	12	2.0	19.2	1.3	2.7	10.2	51.7	38.7	88.4	(D)	EE	(D)
3911	Jewelry, precious metal	-	58	12	1.9	18.2	1.3	2.5	9.6	49.4	36.0	83.4	(D)	EE	(D)
3931	Musical instruments	E1	12	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
394	Toys and sporting goods	-	119	24	3.3	29.0	2.8	5.3	19.3	75.2	66.9	140.5	(D)	3.1	37.3
3944	Games, toys, and children's vehicles	E1	24	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3949	Sporting and athletic goods, n.e.c.	-	93	20	3.0	26.1	2.5	4.7	17.5	59.6	51.5	109.6	2.3	2.4	30.5
395	Pens, pencils, office and art supplies	-	53	9	0.8	6.3	0.6	1.1	3.5	12.8	16.5	29.1	(D)	0.4	7.2
3951	Pens and mechanical pencils	-	8	5	0.5	2.9	0.4	0.6	1.6	4.5	5.7	10.1	0.4	(NA)	(NA)
3953	Marking devices	E3	39	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.2
396	Costume jewelry and notions	E1	27	8	0.5	3.9	0.4	0.8	2.4	9.1	6.6	15.6	(D)	BB	(D)
3962	Artificial flowers	-	13	6	0.3	2.2	0.3	0.5	1.4	4.6	2.8	7.4	(D)	AA	(D)
399	Miscellaneous manufactures	E2	440	76	5.3	53.8	4.0	7.2	32.1	106.7	81.0	186.4	(D)	4.9	63.0
3991	Brooms and brushes	E1	25	4	0.3	2.2	0.2	0.4	1.5	3.7	5.4	9.2	0.2	0.4	2.6
3993	Signs and advertising displays	E2	224	37	2.6	29.5	1.9	3.5	17.8	51.0	30.8	81.8	1.9	2.5	38.1
3995	Burial caskets	-	22	7	0.3	3.2	0.2	0.5	1.8	5.4	7.8	13.0	(D)	0.5	6.6
3999	Manufacturing industries, n.e.c.	E2	169	28	2.1	18.9	1.6	2.8	11.0	46.6	37.0	82.4	3.3	1.6	15.8
--	**Administrative and auxiliary**	-	**529**	**256**	**44.9**	**917.2**	-	-	-	-	-	-	-	**(NA)**	**(NA)**

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Houston-Galveston SCSA	-	**4 211**	**1 386**	**221.3**	**3 568.8**	**134.5**	**273.9**	**1 860.9**	**11 305.1**	**22 553.3**	**33 565.6**	**2 576.7**	**170.6**	**4 867.0**
201	Meat products	-	28	12	1.3	16.3	1.0	1.9	11.2	28.3	152.5	180.6	(D)	(NA)	(NA)
2013	Sausages and other prepared meats	-	12	7	0.6	8.6	0.4	0.8	5.4	15.7	63.4	78.9	0.7	(NA)	(NA)
204	Grain mill products	-	18	8	1.7	26.7	1.2	2.6	14.1	134.5	338.8	471.2	(D)	(NA)	(NA)
2044	Rice milling	-	7	5	1.5	24.4	1.1	2.2	12.7	129.2	328.2	455.1	(D)	(NA)	(NA)
205	Bakery products	-	29	10	2.7	37.4	1.8	3.7	22.9	100.0	62.3	162.6	(D)	(NA)	(NA)
22	Textile mill products	E1	19	3	0.3	2.7	0.3	0.5	2.0	3.1	3.8	6.9	0.3	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Houston-Galveston SCSA—Con.														
23	Apparel and other textile products	E1	82	10	1.2	9.0	1.1	2.1	6.3	14.5	19.7	34.0	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	E2	58	5	0.6	4.4	0.5	1.0	3.2	7.8	11.4	19.2	(D)	(NA)	(NA)
242	Sawmills and planing mills	E2	24	9	0.6	4.5	0.5	1.1	3.4	10.1	14.3	24.0	1.4	(NA)	(NA)
2431	Millwork	E2	19	7	0.5	5.9	0.3	0.6	2.7	7.8	23.4	30.9	0.4	(NA)	(NA)
244	Wood containers	–	12	4	0.4	4.6	0.3	0.6	2.7	7.2	5.4	12.7	0.2	(NA)	(NA)
249	Miscellaneous wood products	–	31	7	0.5	5.1	0.4	0.9	3.5	8.2	23.8	32.1	1.1	(NA)	(NA)
2499	Wood products, n.e.c.	E1	28	4	0.3	2.9	0.3	0.5	2.0	6.5	9.7	16.2	(D)	(NA)	(NA)
251	Household furniture	E3	49	19	1.0	7.9	0.8	1.5	5.6	15.7	18.3	33.9	0.5	(NA)	(NA)
254	Partitions and fixtures	E1	23	9	0.8	10.6	0.6	1.0	6.3	16.3	20.6	36.9	0.7	(NA)	(NA)
2643	Bags, except textile bags	–	6	3	0.5	5.3	0.4	0.9	4.2	10.9	17.3	28.1	1.5	(NA)	(NA)
265	Paperboard containers and boxes	–	19	13	1.1	14.4	0.8	1.8	9.5	25.8	54.4	80.0	2.6	(NA)	(NA)
2653	Corrugated and solid fiber boxes	–	13	10	1.0	12.1	0.7	1.5	7.8	21.1	45.6	66.6	2.4	(NA)	(NA)
27	Printing and publishing	E1	552	80	11.6	142.1	5.7	10.7	68.9	276.2	160.8	436.4	12.3	8.6	143.2
2761	Manifold business forms	–	8	5	0.4	4.5	0.2	0.5	2.6	9.7	8.1	17.6	0.4	(NA)	(NA)
278	Blankbooks and bookbinding	E2	17	9	0.6	7.0	0.5	1.0	4.8	12.9	4.8	17.6	0.5	(NA)	(NA)
2782	Blankbooks and looseleaf binders	–	7	6	0.4	5.1	0.4	0.7	3.3	9.8	3.8	13.6	(D)	(NA)	(NA)
279	Printing trade services	E1	50	8	0.5	7.1	0.4	0.7	5.0	11.7	2.4	14.1	0.6	(NA)	(NA)
2791	Typesetting	E1	43	7	0.3	4.4	0.3	0.5	3.1	7.3	1.1	8.5	0.3	(NA)	(NA)
2819	Industrial inorganic chemicals, n.e.c.	–	19	11	0.8	13.1	0.5	1.0	8.1	48.5	52.8	98.1	21.3	(NA)	(NA)
284	Soaps, cleaners, and toilet goods	E1	34	3	0.3	4.9	0.2	0.4	2.8	32.0	49.3	81.0	(D)	(NA)	(NA)
2851	Paints and allied products	E1	30	16	1.2	17.3	0.5	1.1	6.0	57.1	79.8	136.1	(D)	(NA)	(NA)
29	Petroleum and coal products	–	43	23	13.1	269.3	8.3	17.9	165.4	1 639.1	10 878.9	12 444.0	(D)	11.4	654.8
295	Paving and roofing materials	–	8	5	0.4	4.1	0.3	0.6	3.2	12.9	24.8	37.7	(D)	(NA)	(NA)
3069	Fabricated rubber products, n.e.c.	–	18	9	0.9	11.7	0.7	1.3	7.6	22.0	12.1	34.0	(D)	(NA)	(NA)
3231	Products of purchased glass	–	11	3	0.3	3.0	0.2	0.4	2.1	6.7	6.6	13.1	(D)	(NA)	(NA)
3241	Cement, hydraulic	–	4	4	0.5	9.7	0.4	0.8	7.6	38.3	47.5	86.2	(D)	(NA)	(NA)
3293	Gaskets, packing, and sealing devices	–	19	8	0.8	10.6	0.7	1.3	6.7	22.8	21.8	44.3	0.7	(NA)	(NA)
3412	Metal barrels, drums, and pails	–	8	5	0.5	7.7	0.4	1.0	5.5	22.6	30.9	53.0	1.9	(NA)	(NA)
3442	Metal doors, sash, and trim	–	17	6	0.8	7.6	0.6	1.2	4.3	16.5	20.6	36.8	0.8	(NA)	(NA)
3444	Sheet metal work	E3	64	18	1.2	13.9	0.8	1.4	7.9	27.0	36.1	62.6	1.7	(NA)	(NA)
3448	Prefabricated metal buildings	E1	23	13	2.0	25.7	1.4	2.6	14.7	61.5	88.6	150.4	2.1	(NA)	(NA)
3449	Miscellaneous metal work	–	14	9	0.4	5.6	0.2	0.5	2.7	11.1	31.8	44.2	0.3	(NA)	(NA)
345	Screw machine products, bolts, etc.	E2	22	10	1.0	12.4	0.8	1.6	8.4	29.2	23.5	53.1	1.5	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers	E2	16	8	1.0	11.4	0.7	1.4	7.6	26.3	21.1	47.9	1.4	(NA)	(NA)
346	Metal forgings and stampings	–	35	14	1.9	28.1	1.4	2.8	18.5	94.0	77.8	166.1	(D)	(NA)	(NA)
3462	Iron and steel forgings	–	15	8	1.4	22.0	1.0	2.1	14.4	79.7	67.7	142.0	(D)	(NA)	(NA)
3469	Metal stampings, n.e.c.	–	20	6	0.5	6.1	0.4	0.8	4.1	14.3	10.1	24.2	0.3	(NA)	(NA)
3471	Plating and polishing	E3	37	6	0.5	5.0	0.4	0.8	3.7	9.4	3.4	12.8	(D)	(NA)	(NA)
3496	Miscellaneous fabricated wire products	E7	21	5	0.4	4.3	0.3	0.7	3.0	11.6	17.0	28.4	0.4	(NA)	(NA)
35	Machinery, except electrical	–	913	260	42.2	623.0	28.0	57.8	375.9	1 458.5	1 024.6	2 518.1	142.3	(NA)	(NA)
352	Farm and garden machinery	–	11	2	0.4	4.9	0.2	0.4	1.7	23.1	18.7	41.8	0.6	(NA)	(NA)
353	Construction and related machinery	–	162	93	27.8	421.7	18.2	37.7	255.5	1 073.6	676.0	1 786.0	119.5	(NA)	(NA)
3531	Construction machinery	E1	18	8	0.8	10.4	0.6	1.1	6.6	25.3	26.1	50.7	1.1	(NA)	(NA)
3533	Oil field machinery	–	119	72	25.7	394.0	16.8	34.9	238.4	1 007.0	604.8	1 650.2	116.5	(NA)	(NA)
3536	Hoists, cranes, and monorails	E2	10	4	0.5	7.1	0.4	0.8	4.7	15.3	13.1	28.0	0.3	(NA)	(NA)
356	General industrial machinery	E1	94	40	3.0	41.0	1.9	3.8	22.9	76.8	67.4	143.9	3.7	(NA)	(NA)
3561	Pumps and pumping equipment	–	19	13	1.1	16.4	0.7	1.4	9.4	27.5	24.9	52.2	1.0	(NA)	(NA)
3564	Blowers and fans	–	11	7	0.5	6.2	0.3	0.5	3.0	9.1	11.5	21.4	0.6	(NA)	(NA)
3569	General industrial machinery, n.e.c.	E1	33	11	0.6	8.0	0.4	0.8	4.4	17.0	15.9	32.3	1.0	(NA)	(NA)
358	Refrigeration and service machinery	E1	33	8	0.6	7.5	0.5	0.8	4.5	16.3	17.7	33.4	0.8	(NA)	(NA)
361	Electric distributing equipment	–	22	7	0.9	14.0	0.7	1.4	8.0	31.0	37.9	69.4	(D)	(NA)	(NA)
366	Communication equipment	–	25	11	2.3	32.3	1.5	2.9	15.8	77.0	56.3	125.8	4.3	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Houston-Galveston SCSA—Con.													
369	Miscellaneous electrical equipment and supplies	–	28	9	1.0	10.4	0.5	1.0	4.1	36.2	12.4	46.6	2.1	(NA)	(NA)
37	Transportation equipment	E1	120	38	4.2	57.1	3.4	6.8	43.1	104.2	95.8	194.8	4.5	(NA)	(NA)
371	Motor vehicles and equipment	E4	37	10	0.5	6.2	0.4	0.8	4.5	13.1	17.3	30.1	0.9	(NA)	(NA)
3731	Ship building and repairing	–	27	15	2.4	34.1	2.0	4.0	26.9	53.6	26.2	79.8	(D)	(NA)	(NA)
3841	Surgical and medical instruments	–	9	4	0.3	3.1	0.1	0.3	1.3	4.9	3.3	8.4	0.4	(NA)	(NA)
394	Toys and sporting goods	E2	30	3	0.3	2.6	0.2	0.5	1.8	5.0	5.2	10.2	0.4	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	E2	35	6	0.4	4.1	0.3	0.6	2.4	12.6	10.6	22.5	0.5	(NA)	(NA)
	Abilene SMSA	–	**141**	**43**	**5.8**	**51.4**	**4.1**	**8.2**	**33.5**	**106.9**	**510.1**	**620.3**	**8.1**	**5.2**	**62.5**
20	Food and kindred products	–	25	13	1.4	13.7	0.9	2.1	8.2	40.8	137.0	175.0	4.0	1.3	19.2
205	Bakery products	–	5	4	0.4	4.6	0.2	0.5	2.2	10.8	8.8	19.6	(D)	(NA)	(NA)
23	Apparel and other textile products	–	6	3	0.9	5.0	0.8	1.3	4.1	5.8	2.7	8.3	(D)	(NA)	(NA)
27	Printing and publishing	–	23	4	0.4	4.0	0.2	0.3	1.8	10.2	3.6	13.8	0.3	0.4	4.1
34	Fabricated metal products	–	9	5	0.5	4.4	0.4	0.8	3.0	13.8	26.4	38.5	0.6	0.3	4.8
	Amarillo SMSA	–	**211**	**60**	**7.7**	**94.0**	**5.5**	**11.2**	**59.7**	**474.8**	**1 534.0**	**2 008.3**	**16.1**	**5.4**	**68.8**
27	Printing and publishing	E2	38	6	0.5	5.6	0.3	0.5	2.7	14.7	7.0	21.7	0.6	0.7	9.3
32	Stone, clay, and glass products	–	14	6	0.3	3.9	0.2	0.4	2.4	11.8	13.6	25.8	1.5	(NA)	(NA)
35	Machinery, except electrical	–	31	9	0.6	7.1	0.4	0.8	4.4	14.6	22.4	37.2	2.8	(NA)	(NA)
352	Farm and garden machinery	–	7	4	0.3	2.9	0.2	0.3	1.3	4.3	13.4	18.5	(D)	(NA)	(NA)
3523	Farm machinery and equipment	–	7	4	0.3	2.9	0.2	0.3	1.3	4.3	13.4	18.5	(D)	(NA)	(NA)
	Austin SMSA	–	**527**	**135**	**20.7**	**259.0**	**11.4**	**21.6**	**100.1**	**553.6**	**479.6**	**1 001.6**	**75.5**	**14.0**	**250.3**
20	Food and kindred products	E1	45	17	1.5	15.0	0.8	1.5	6.1	34.2	58.1	91.9	3.2	1.3	17.1
205	Bakery products	–	7	3	0.4	4.0	0.2	0.4	1.8	7.3	6.9	14.2	(D)	0.4	4.8
2051	Bread, cake, and related products	–	7	3	0.4	4.0	0.2	0.4	1.8	7.3	6.9	14.2	(D)	0.4	4.8
208	Beverages	–	9	4	0.4	4.5	0.1	0.3	1.0	10.5	13.5	23.9	1.3	(NA)	(NA)
23	Apparel and other textile products	–	18	8	0.6	3.4	0.6	1.2	3.0	4.3	3.5	7.7	0.1	(NA)	(NA)
239	Miscellaneous fabricated textile products	–	7	3	0.3	1.7	0.2	0.5	1.5	2.1	2.8	4.8	(D)	(NA)	(NA)
24	Lumber and wood products	E1	31	5	0.4	3.7	0.3	0.5	2.2	6.6	11.9	18.4	(D)	0.5	4.4
243	Millwork, plywood, and structural members	–	21	3	0.3	2.7	0.2	0.4	1.5	5.2	9.9	14.9	(D)	0.3	2.7
25	Furniture and fixtures	–	25	9	1.9	14.5	1.6	3.1	10.0	24.5	27.4	51.1	(D)	1.1	9.2
251	Household furniture	–	17	6	1.7	12.0	1.4	2.7	8.5	18.4	22.7	40.3	(D)	1.1	8.6
27	Printing and publishing	E1	134	21	2.1	23.7	1.0	1.8	9.8	54.0	25.5	79.4	2.4	1.9	28.6
2711	Newspapers	–	16	3	0.8	8.8	0.3	0.5	2.8	20.7	7.7	28.4	0.7	(NA)	(NA)
273	Books	E2	16	5	0.3	3.3	0.1	0.2	0.8	10.3	4.7	15.1	(D)	(NA)	(NA)
28	Chemicals and allied products	E2	22	6	0.3	3.5	0.2	0.3	1.9	9.3	12.1	21.5	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E2	24	5	0.3	2.8	0.3	0.5	1.9	6.4	8.0	14.2	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	36	7	0.6	7.3	0.5	1.1	5.3	21.0	18.5	39.5	(D)	0.5	8.4
327	Concrete, gypsum, and plaster products	–	24	6	0.6	6.5	0.4	1.0	4.6	19.1	17.5	36.8	1.7	0.4	7.6
34	Fabricated metal products	E3	33	10	0.6	6.2	0.4	0.9	4.1	10.9	19.3	30.1	1.6	(NA)	(NA)
344	Fabricated structural metal products	E2	17	4	0.3	3.5	0.2	0.5	2.2	5.7	15.3	20.9	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	23	5	0.4	3.3	0.3	0.6	2.5	6.1	2.2	8.3	(D)	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E1	23	5	0.4	3.3	0.3	0.6	2.5	6.1	2.2	8.3	(D)	(NA)	(NA)
36	Electric and electronic equipment	–	33	15	4.3	53.2	1.9	3.7	19.0	148.6	59.2	203.2	17.1	2.3	40.5
38	Instruments and related products	E1	21	8	0.7	7.9	0.4	0.7	3.4	18.8	9.8	27.5	2.0	0.3	5.0
39	Miscellaneous manufacturing industries	E1	26	5	0.6	5.6	0.4	0.7	2.6	14.7	7.0	21.9	(D)	0.6	5.1
--	Administrative and auxiliary	–	8	3	0.4	5.4	–	–	–	–	–	–	–	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Beaumont-Port Arthur-Orange SMSA	–	**344**	**121**	**38.3**	**683.3**	**27.6**	**55.1**	**455.8**	**2 626.3**	**8 401.6**	**10 959.0**	**556.0**	**37.6**	**1 034.0**
20	Food and kindred products	–	21	9	0.9	10.0	0.5	0.8	3.9	23.9	49.4	72.9	2.9	0.9	16.6
208	Beverages	E1	4	3	0.4	4.0	0.2	0.2	1.4	10.3	13.0	23.3	(D)	0.3	4.0
2086	Bottled and canned soft drinks	E1	4	3	0.4	4.0	0.2	0.2	1.4	10.3	13.0	23.3	(D)	0.3	4.0
24	Lumber and wood products	–	29	9	1.0	12.1	0.9	2.2	8.8	26.4	31.0	57.2	2.8	1.8	23.8
27	Printing and publishing	E1	39	5	0.8	6.9	0.3	0.6	2.6	17.9	6.2	24.1	0.5	0.8	12.2
2711	Newspapers	–	8	4	0.6	5.2	0.2	0.4	1.6	14.5	4.2	18.8	(D)	0.6	9.7
28	Chemicals and allied products	–	27	22	9.8	211.7	6.3	13.2	125.2	817.6	1 431.9	2 246.4	221.8	8.9	439.3
282	Plastics materials and synthetics	–	9	9	4.2	85.1	3.0	6.2	59.2	255.5	591.9	847.3	(D)	4.9	180.8
286	Industrial organic chemicals	–	7	7	5.2	120.1	3.0	6.4	62.3	523.4	779.7	1 304.9	115.3	3.7	238.2
29	Petroleum and coal products	–	15	12	13.8	279.0	10.8	22.4	207.9	1 433.5	6 561.2	7 921.9	286.5	14.1	366.8
30	Rubber and miscellaneous plastics products	–	11	4	0.4	5.5	0.3	0.7	4.2	14.3	31.0	43.9	(D)	(NA)	(NA)
32	Stone, clay, and glass products	E1	20	7	0.5	7.9	0.4	0.8	6.0	25.7	22.5	48.5	6.6	0.3	6.0
3273	Ready-mixed concrete	E2	7	4	0.3	4.8	0.3	0.5	3.4	14.3	16.7	31.0	4.0	(NA)	(NA)
34	Fabricated metal products	–	52	20	2.8	39.4	2.1	4.2	27.2	71.3	100.6	178.0	4.8	2.2	38.7
341	Metal cans and shipping containers	–	4	3	0.5	7.8	0.4	0.7	5.6	14.8	28.6	44.8	(D)	(NA)	(NA)
344	Fabricated structural metal products	–	23	10	1.3	18.4	0.9	1.9	12.2	29.6	38.0	71.3	2.4	0.6	8.7
346	Metal forgings and stampings	–	5	3	0.3	5.1	0.2	0.6	3.7	12.0	18.0	30.2	(D)	0.4	8.7
35	Machinery, except electrical	–	45	10	0.9	12.9	0.7	1.5	9.5	18.0	24.1	44.5	1.3	0.8	16.8
359	Miscellaneous machinery, except electrical	E2	29	6	0.3	3.7	0.2	0.4	2.6	6.6	2.8	9.0	(D)	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E2	29	6	0.3	3.7	0.2	0.4	2.6	6.6	2.8	9.0	(D)	(NA)	(NA)
37	Transportation equipment	–	31	10	4.3	53.0	3.4	4.9	36.1	81.6	40.2	122.3	(D)	5.1	43.2
373	Ship and boat building and repairing	–	27	9	4.3	52.5	3.4	4.9	35.7	80.5	38.4	119.4	(D)	5.0	42.7
--	Administrative and auxiliary	–	11	3	0.5	10.4	–	–	–	–	–	–	–	(NA)	(NA)
	Brownsville-Harlingen-San Benito SMSA	–	**151**	**56**	**9.0**	**74.3**	**6.9**	**13.6**	**47.7**	**201.3**	**286.9**	**484.8**	**19.2**	**6.9**	**101.0**
20	Food and kindred products	–	31	17	2.2	17.9	1.5	2.9	9.6	49.0	95.0	143.3	2.3	2.8	31.2
23	Apparel and other textile products	–	14	6	2.3	14.1	2.2	4.3	12.6	31.3	28.1	59.5	(D)	(NA)	(NA)
27	Printing and publishing	E1	17	4	0.3	2.1	0.2	0.3	1.0	5.6	2.0	7.7	0.1	0.3	3.3
32	Stone, clay, and glass products	–	11	3	0.7	5.0	0.5	1.0	3.3	25.0	20.3	43.5	1.0	0.3	5.2
34	Fabricated metal products	E1	12	5	0.3	3.2	0.3	0.5	2.0	5.6	5.8	11.5	0.1	0.3	2.7
36	Electric and electronic equipment	–	7	5	0.6	4.6	0.5	1.0	3.2	15.0	20.8	34.9	0.6	0.5	10.4
	Bryan-College Station SMSA	–	**63**	**22**	**2.1**	**22.2**	**1.6**	**3.3**	**15.4**	**55.5**	**72.2**	**127.3**	**4.9**	**2.0**	**27.8**
27	Printing and publishing	–	16	3	0.3	3.2	0.2	0.4	1.8	8.8	4.7	13.5	(D)	(NA)	(NA)
	Corpus Christi SMSA	–	**248**	**73**	**12.1**	**178.6**	**8.2**	**16.6**	**109.5**	**734.7**	**3 183.1**	**3 875.2**	**398.1**	**10.9**	**282.0**
20	Food and kindred products	–	29	15	2.1	24.7	1.2	2.4	13.1	42.6	138.2	181.7	4.8	1.6	26.1
201	Meat products	–	4	4	0.6	6.7	0.5	0.8	4.7	14.3	80.0	94.0	0.7	(NA)	(NA)
205	Bakery products	–	3	3	0.5	5.4	0.2	0.5	2.5	11.6	10.6	22.1	0.5	(NA)	(NA)
2051	Bread, cake, and related products	–	3	3	0.5	5.4	0.2	0.5	2.5	11.6	10.6	22.1	0.5	(NA)	(NA)
27	Printing and publishing	E1	43	6	0.7	7.2	0.3	0.5	2.6	18.1	6.7	24.8	0.9	0.6	10.1
28	Chemicals and allied products	–	14	7	3.1	59.8	2.0	4.0	35.7	234.3	392.7	617.4	(D)	2.4	97.0
29	Petroleum and coal products	–	6	5	1.6	32.3	1.2	3.0	24.4	366.2	2 505.4	2 819.2	(D)	1.3	62.1
32	Stone, clay, and glass products	–	25	8	0.5	5.6	0.3	0.8	3.7	14.8	23.6	39.2	2.0	0.7	13.0
34	Fabricated metal products	E1	25	6	0.4	4.4	0.3	0.6	3.1	8.1	10.4	19.2	0.2	0.3	6.8
344	Fabricated structural metal products	E1	17	5	0.3	3.9	0.3	0.5	2.7	6.7	9.8	17.2	(D)	(NA)	(NA)
35	Machinery, except electrical	E1	35	5	0.4	4.4	0.3	0.6	2.8	10.1	6.0	16.0	0.5	0.3	4.9
36	Electric and electronic equipment	–	9	3	0.5	5.0	0.4	0.6	3.1	9.8	3.8	13.0	(D)	(NA)	(NA)
37	Transportation equipment	–	14	4	0.5	6.3	0.4	0.7	4.1	8.4	8.2	16.6	(D)	0.5	4.6
373	Ship and boat building and repairing	–	10	3	0.5	5.9	0.4	0.6	3.8	7.7	7.2	15.0	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Dallas-Fort Worth SMSA	-	**5 505**	**1 750**	**269.9**	**3 508.9**	**171.7**	**339.8**	**1 814.4**	**7 869.1**	**8 460.5**	**16 116.9**	**500.8**	**230.0**	**4 075.7**
20	Food and kindred products	-	293	136	19.9	253.0	12.3	25.1	144.1	872.3	1 662.8	2 533.8	62.6	17.7	431.2
201	Meat products	E1	48	23	2.9	31.5	2.1	4.5	21.7	67.8	344.8	412.0	3.7	2.7	42.9
2011	Meat packing plants	E1	24	12	1.7	20.4	1.1	2.6	13.8	44.4	231.6	275.9	2.5	1.8	30.6
202	Dairy products	-	25	15	1.9	25.1	0.9	2.0	11.4	78.1	203.6	281.2	6.3	1.7	37.1
2026	Fluid milk	-	11	10	1.6	21.3	0.7	1.5	9.0	64.9	175.8	240.5	5.7	1.4	32.9
203	Preserved fruits and vegetables	-	23	9	1.5	17.8	1.2	2.4	14.1	75.8	133.1	208.9	5.4	1.4	18.3
2038	Frozen specialties	E1	10	5	0.3	3.1	0.2	0.5	1.7	5.1	9.8	15.0	0.5	(NA)	(NA)
204	Grain mill products	-	37	16	1.6	17.5	1.0	2.1	10.8	54.0	171.7	225.2	2.7	1.4	34.3
2048	Prepared feeds, n.e.c.	-	23	9	0.7	6.7	0.4	0.8	3.9	21.7	85.6	107.4	0.7	0.5	15.1
205	Bakery products	-	33	14	3.1	39.2	1.8	3.3	19.2	98.2	76.7	174.9	4.4	2.8	54.3
206	Sugar and confectionery products	E2	15	3	0.5	5.6	0.3	0.7	3.0	12.2	15.2	32.1	0.6	1.1	14.7
2065	Confectionery products	E2	15	3	0.5	5.6	0.3	0.7	3.0	12.2	15.2	32.1	0.6	1.1	14.7
207	Fats and oils	-	15	7	0.8	11.9	0.6	1.2	8.0	46.7	169.9	215.9	3.0	0.8	32.7
2079	Shortening and cooking oils	-	4	4	0.5	9.3	0.4	0.8	6.3	37.7	144.4	181.0	(D)	(NA)	(NA)
208	Beverages	-	32	21	4.6	71.0	2.1	4.3	33.7	332.7	408.3	737.3	31.4	3.1	130.3
209	Miscellaneous foods and kindred products	-	65	28	3.1	33.4	2.4	4.6	22.2	106.7	139.6	246.2	5.2	2.6	66.5
2097	Manufactured ice	-	10	3	0.3	1.7	0.1	0.3	0.9	3.6	1.1	4.7	(D)	0.3	4.1
2099	Food preparations, n.e.c.	-	49	21	2.5	28.2	1.9	3.7	19.1	96.7	103.3	200.4	2.7	1.8	56.3
22	Textile mill products	E2	38	13	0.9	7.5	0.8	1.4	5.4	15.2	15.2	29.9	(D)	0.4	3.9
23	Apparel and other textile products	E1	374	170	22.4	171.0	18.5	35.0	111.2	311.9	394.9	682.0	9.6	19.7	183.2
232	Men's and boys' furnishings	-	28	23	4.0	27.9	3.6	7.2	22.9	56.0	64.9	117.9	(D)	4.8	48.5
2328	Men's and boys' work clothing	-	12	12	2.9	19.9	2.7	5.6	17.5	37.9	33.4	67.4	(D)	0.8	4.2
2329	Men's and boys' clothing, n.e.c.	-	3	3	0.3	2.1	0.3	0.6	1.9	2.6	2.5	5.2	(D)	(NA)	(NA)
233	Women's and misses' outerwear	E1	174	80	10.4	84.4	8.0	14.2	48.4	192.4	186.1	375.6	(D)	9.1	85.0
2331	Women's and misses' blouses and waists	E5	16	6	0.7	5.3	0.6	0.9	2.9	11.5	15.7	27.9	0.4	1.0	9.6
2335	Women's and misses' dresses	E1	106	35	4.0	36.7	2.9	5.2	17.1	72.3	80.6	150.4	2.5	5.7	42.2
2339	Women's and misses' outerwear, n.e.c.	E2	25	20	3.7	25.8	3.0	5.4	18.2	53.8	58.0	110.5	(D)	1.6	23.5
235	Hats, caps, and millinery	-	9	4	0.7	6.2	0.6	1.1	3.5	11.8	10.0	20.3	(D)	(NA)	(NA)
236	Children's outerwear	E3	8	5	0.6	3.9	0.5	1.0	2.8	6.3	3.8	10.0	(D)	0.6	5.4
238	Miscellaneous apparel and accessories	-	19	9	0.5	3.4	0.4	0.7	2.3	6.5	6.1	12.8	0.1	0.4	3.6
2387	Apparel belts	-	6	6	0.4	2.5	0.3	0.6	1.8	5.1	5.4	10.7	(D)	0.3	2.7
239	Miscellaneous fabricated textile products	E1	122	42	3.8	27.2	3.2	6.0	19.0	45.7	63.4	108.7	(D)	2.9	24.8
2391	Curtains and draperies	E1	36	10	0.8	5.4	0.7	1.2	3.8	9.9	18.7	28.5	(D)	0.7	6.3
2399	Fabricated textile products, n.e.c.	E1	17	6	0.9	6.5	0.7	1.2	4.2	7.7	8.6	16.1	(D)	0.5	2.8
24	Lumber and wood products	-	220	60	5.9	50.6	5.0	9.1	36.4	101.6	189.7	287.9	(D)	5.6	67.4
243	Millwork, plywood, and structural members	E1	110	29	2.9	24.3	2.4	4.5	17.5	50.9	88.5	137.1	2.3	2.6	33.3
2431	Millwork	-	52	14	1.4	12.0	1.2	2.1	8.2	27.5	64.3	90.7	1.1	1.4	20.5
2434	Wood kitchen cabinets	E2	54	13	1.2	10.1	1.0	1.9	7.7	18.2	16.6	34.0	1.1	1.0	9.1
2439	Structural wood members, n.e.c.	-	4	2	0.3	2.2	0.2	0.5	1.6	5.2	7.6	12.4	0.1	(NA)	(NA)
244	Wood containers	E1	29	7	0.5	3.4	0.4	0.7	2.4	5.7	8.9	14.5	0.3	0.3	3.5
245	Wood buildings and mobile homes	-	24	15	1.9	18.5	1.7	3.1	13.3	36.5	77.4	113.3	(D)	2.2	24.9
2451	Mobile homes	-	16	12	1.7	15.5	1.5	2.7	11.4	31.2	70.5	101.1	(D)	(NA)	(NA)
2452	Prefabricated wood buildings	-	8	3	0.3	3.0	0.2	0.4	1.9	5.3	6.9	12.3	(D)	(NA)	(NA)
249	Miscellaneous wood products	E4	34	6	0.3	2.7	0.3	0.5	1.7	5.4	5.9	11.3	0.3	0.3	4.8
25	Furniture and fixtures	-	200	71	6.3	57.1	5.2	9.5	39.9	126.8	121.0	245.4	7.0	5.4	77.2
251	Household furniture	-	104	42	4.2	36.0	3.5	6.5	26.5	76.8	84.8	160.4	3.7	3.9	52.2
2511	Wood household furniture	E1	51	14	1.8	13.5	1.6	3.0	10.4	28.0	24.2	51.9	1.1	1.3	16.2
2515	Mattresses and bedsprings	-	22	11	1.0	9.7	0.8	1.5	6.6	28.2	32.8	59.8	1.7	0.9	16.3
252	Office furniture	-	11	6	0.3	3.3	0.2	0.4	1.9	7.5	7.2	14.4	(D)	0.3	5.3
254	Partitions and fixtures	E1	52	12	1.1	12.4	0.9	1.6	7.7	32.7	18.5	50.6	2.4	0.9	14.6
2541	Wood partitions and fixtures	E1	42	6	0.5	6.7	0.4	0.9	4.3	19.7	7.8	27.4	0.5	0.5	7.4
2542	Metal partitions and fixtures	-	10	6	0.6	5.8	0.4	0.8	3.4	13.0	10.8	23.2	1.9	0.4	7.3
259	Miscellaneous furniture and fixtures	-	25	8	0.5	3.8	0.4	0.7	2.6	7.7	7.7	15.4	0.5	(NA)	(NA)
2599	Furniture and fixtures, n.e.c.	E1	13	5	0.3	2.1	0.2	0.4	1.5	3.3	3.2	6.5	0.3	(NA)	(NA)
26	Paper and allied products	-	134	70	7.3	86.5	5.3	11.1	56.7	189.4	311.9	500.3	27.9	6.5	107.7

See footnotes at end of table.

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			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Dallas-Fort Worth SMSA—Con.														
26	Paper and allied products—Con.														
264	Miscellaneous converted paper products	-	67	30	3.1	35.7	2.2	4.6	23.3	78.2	117.6	195.9	(D)	2.9	44.3
2641	Paper coating and glazing	-	20	6	0.7	7.5	0.4	1.0	4.8	16.6	31.2	47.9	2.5	0.3	5.6
2642	Envelopes	-	9	7	0.7	8.9	0.5	1.1	5.6	17.3	19.3	36.8	(D)	0.7	11.0
2643	Bags, except textile bags	-	13	8	0.8	9.9	0.6	1.2	7.0	18.4	38.2	56.6	1.3	1.1	13.6
2649	Converted paper products, n.e.c.	E1	16	5	0.4	4.0	0.3	0.5	2.1	11.1	9.5	20.7	0.3	(NA)	(NA)
265	Paperboard containers and boxes	-	61	36	3.8	46.4	2.8	5.7	30.0	95.8	182.3	277.1	22.0	3.1	56.5
2651	Folding paperboard boxes	-	10	4	0.5	6.7	0.4	0.8	4.5	15.8	22.5	38.0	3.1	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	41	27	2.6	33.6	1.9	3.8	21.0	65.0	127.4	191.9	17.1	2.0	35.5
27	Printing and publishing	-	883	160	17.9	208.0	11.9	22.5	121.3	453.8	281.1	732.8	25.1	15.2	267.7
2711	Newspapers	-	105	17	3.9	47.6	1.6	2.7	17.5	133.7	61.0	194.8	7.2	3.9	86.2
2721	Periodicals	E2	46	5	0.3	3.8	0.1	0.3	1.4	10.2	7.3	17.5	0.1	0.3	6.2
273	Books	E1	43	11	1.7	18.0	1.3	2.5	11.1	39.9	19.8	59.8	2.0	1.5	24.6
2732	Book printing	-	17	8	1.5	15.6	1.3	2.4	10.7	31.9	16.3	48.3	(D)	(NA)	(NA)
2741	Miscellaneous publishing	-	31	7	0.8	6.9	0.3	0.4	1.7	15.9	3.8	19.7	0.2	0.6	10.0
275	Commercial printing	E1	551	79	6.4	77.0	4.9	9.4	53.2	148.5	116.4	263.9	11.4	5.0	79.2
2751	Commercial printing, letterpress	E4	273	12	1.3	14.8	1.1	1.9	10.0	30.4	22.8	52.9	2.1	1.2	18.6
2761	Manifold business forms	-	20	15	2.7	30.9	1.9	4.1	18.6	62.2	53.0	114.6	1.2	2.2	35.9
278	Blankbooks and bookbinding	-	25	11	1.0	9.5	0.8	1.6	7.1	18.9	8.0	26.8	0.9	0.7	8.9
2782	Blankbooks and looseleaf binders	-	11	8	0.8	7.8	0.7	1.3	5.8	16.4	7.2	23.4	0.7	0.4	5.5
279	Printing trade services	-	62	15	1.1	14.2	0.8	1.5	10.6	24.5	11.6	35.8	2.1	1.0	16.8
2791	Typesetting	-	39	9	0.5	6.4	0.4	0.8	5.1	10.5	2.5	13.0	0.6	0.6	8.8
28	Chemicals and allied products	-	255	78	7.9	102.9	4.3	8.2	45.9	470.8	457.6	919.9	24.6	6.1	234.2
281	Industrial inorganic chemicals	-	20	8	0.6	8.1	0.4	0.9	5.4	36.1	52.2	88.0	4.2	0.6	17.3
283	Drugs	-	22	5	1.3	18.6	0.4	0.7	3.6	63.3	18.6	80.2	(D)	0.8	23.2
284	Soaps, cleaners, and toilet goods	-	65	18	1.6	21.6	1.0	2.0	12.7	145.3	125.5	270.1	(D)	1.6	102.0
2842	Polishes and sanitation goods	-	24	6	0.4	4.7	0.3	0.5	2.5	19.1	24.6	43.1	(D)	0.7	24.3
2844	Toilet preparations	E3	25	4	0.4	3.7	0.2	0.3	1.5	10.0	14.5	25.8	(D)	(NA)	(NA)
2851	Paints and allied products	-	29	13	1.7	22.1	0.8	1.7	9.6	96.0	134.3	228.4	(D)	1.7	48.2
287	Agricultural chemicals	-	16	3	0.7	6.6	0.5	0.7	2.6	23.9	17.2	40.4	1.7	0.3	9.6
289	Miscellaneous chemical products	E1	86	29	2.0	24.1	1.1	2.2	10.9	93.8	93.0	183.6	5.4	1.1	33.1
2891	Adhesives and sealants	E1	18	7	0.3	4.5	0.2	0.4	2.1	15.8	17.8	33.6	0.5	(NA)	(NA)
2899	Chemical preparations, n.e.c.	E1	50	14	1.2	14.6	0.7	1.3	6.4	57.3	54.7	109.6	4.2	0.6	19.8
29	Petroleum and coal products	-	33	12	1.8	25.3	0.9	2.0	11.3	77.4	166.7	242.0	(D)	1.6	36.6
295	Paving and roofing materials	-	19	10	1.6	22.6	0.8	1.8	9.6	63.3	92.5	155.5	(D)	1.4	31.3
2952	Asphalt felts and coatings	-	12	10	1.6	22.3	0.8	1.7	9.4	62.3	88.6	150.7	(D)	1.4	31.5
30	Rubber and miscellaneous plastics products	-	220	88	9.1	95.2	7.0	13.9	59.1	203.2	223.9	420.9	16.6	5.1	86.0
3069	Fabricated rubber products, n.e.c.	-	17	11	1.5	20.3	1.1	2.1	10.1	29.4	40.7	69.2	2.3	(NA)	(NA)
3079	Miscellaneous plastics products	-	199	74	6.7	64.9	5.3	10.5	42.8	155.4	155.7	308.1	13.7	3.7	62.3
31	Leather and leather products	E4	40	16	2.1	14.8	1.7	3.1	9.4	30.9	32.9	63.0	0.9	(NA)	(NA)
3199	Leather goods, n.e.c.	E1	22	7	0.7	5.1	0.5	0.8	2.5	12.0	11.8	22.6	0.3	(NA)	(NA)
32	Stone, clay, and glass products	-	242	76	7.7	92.8	6.1	12.3	66.0	290.3	277.5	564.6	23.5	6.4	156.6
3241	Cement, hydraulic	-	5	5	0.9	15.1	0.8	1.6	12.1	74.0	51.7	126.0	(D)	0.7	41.9
325	Structural clay products	-	12	9	1.2	10.7	0.9	1.9	6.8	33.0	29.5	61.3	(D)	1.1	17.9
3272	Concrete products, n.e.c.	-	54	15	1.6	18.3	1.2	2.4	11.9	39.6	33.7	71.1	3.1	1.5	28.5
3273	Ready-mixed concrete	-	68	21	1.3	17.0	1.0	2.1	12.2	40.7	81.1	121.7	5.9	1.3	23.9
329	Miscellaneous nonmetallic mineral products	-	43	11	1.3	16.1	1.0	2.1	12.2	74.0	50.5	125.1	(D)	0.9	28.9
33	Primary metal industries	-	102	37	5.4	67.8	4.3	8.9	48.2	138.8	204.7	343.2	12.4	3.0	52.6

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Dallas-Fort Worth SMSA—Con.														
34	Fabricated metal products	-	594	209	19.4	216.4	14.8	30.3	142.4	497.1	622.5	1 118.1	27.3	18.9	261.9
341	Metal cans and shipping containers	-	10	9	1.0	17.2	0.8	1.8	13.0	60.7	98.4	158.2	2.5	0.8	23.8
342	Cutlery, hand tools, and hardware	-	30	11	1.2	12.1	1.0	1.8	7.9	26.9	29.0	55.2	3.9	0.3	3.1
343	Plumbing and heating, except electric	-	20	11	1.8	20.1	1.2	2.5	11.6	43.2	56.2	99.2	1.7	1.2	18.7
344	Fabricated structural metal products	-	267	93	9.2	103.4	6.9	14.7	67.3	214.7	293.4	509.4	9.7	8.9	116.7
3441	Fabricated structural metal	-	39	22	2.2	25.9	1.7	3.8	17.5	57.0	69.5	128.5	2.2	2.0	25.2
3442	Metal doors, sash, and trim	-	44	11	1.9	16.8	1.5	3.4	10.9	33.8	46.6	80.9	1.2	2.2	27.9
3443	Fabricated plate work (boiler shops)	E1	40	21	1.8	22.3	1.4	2.9	16.0	50.1	53.5	102.7	3.0	1.9	20.2
3444	Sheet metal work	E1	84	23	1.7	20.7	1.2	2.4	13.5	41.5	58.8	99.6	1.7	1.9	27.3
3448	Prefabricated metal buildings	-	10	4	0.4	5.6	0.3	0.5	2.4	12.9	23.0	35.4	0.8	(NA)	(NA)
346	Metal forgings and stampings	E1	42	18	1.3	14.0	1.0	2.0	9.9	29.6	30.5	60.1	2.1	1.1	15.4
347	Metal services, n.e.c.	E1	89	20	1.4	14.3	1.2	2.4	10.1	27.2	19.0	46.5	1.2	1.2	15.2
3471	Plating and polishing	E1	60	11	0.8	8.0	0.7	1.4	5.8	14.8	6.1	21.3	0.5	0.6	7.3
3479	Metal coating and allied services	-	29	9	0.6	6.2	0.5	1.0	4.4	12.5	12.8	25.3	0.7	0.6	7.9
349	Miscellaneous fabricated metal products	-	110	37	2.8	26.2	2.1	4.2	17.2	74.4	79.2	151.8	5.2	2.3	33.9
3494	Valves and pipe fittings	-	17	9	0.9	9.0	0.6	1.3	5.7	27.5	26.0	53.5	2.2	1.2	17.8
3496	Miscellaneous fabricated wire products	E1	20	6	0.5	3.1	0.4	0.7	2.0	8.6	11.6	19.6	0.4	0.3	3.0
3498	Fabricated pipe and fittings	-	9	5	0.3	3.3	0.2	0.4	2.5	11.0	15.9	26.8	0.7	(NA)	(NA)
3499	Fabricated metal products, n.e.c.	E1	57	13	0.9	7.5	0.6	1.3	4.9	19.0	19.4	37.5	1.6	0.4	5.6
35	Machinery, except electrical	-	785	206	33.8	454.7	22.3	43.3	251.4	1 154.2	883.1	2 016.8	64.6	22.1	442.6
3523	Farm machinery and equipment	E1	14	4	0.4	5.1	0.3	0.6	3.1	7.6	13.2	20.1	1.2	(NA)	(NA)
353	Construction and related machinery	-	95	52	10.4	147.0	7.4	15.2	97.0	430.3	252.0	669.7	25.4	5.6	94.5
3531	Construction machinery	E3	20	9	0.6	8.4	0.4	0.8	4.6	14.7	19.5	35.3	1.3	0.5	8.9
3533	Oil field machinery	-	30	20	7.5	110.9	5.3	11.2	75.6	360.4	182.6	528.8	21.5	3.5	63.9
3535	Conveyors and conveying equipment	-	19	10	1.3	14.3	0.9	1.8	8.6	27.3	25.1	54.0	1.3	1.0	12.1
3537	Industrial trucks and tractors	E1	13	6	0.5	6.2	0.3	0.6	3.4	12.9	11.2	24.0	0.9	(NA)	(NA)
354	Metalworking machinery	E1	92	17	2.0	23.2	1.4	2.8	14.7	56.0	29.1	84.2	3.7	1.2	25.2
3544	Special dies, tools, jigs, and fixtures	E3	68	9	0.7	9.4	0.5	1.1	6.8	14.3	8.1	22.1	1.4	0.3	5.4
355	Special industry machinery	-	57	20	2.6	37.9	1.7	3.4	18.7	89.5	63.5	153.7	6.8	2.0	43.0
3551	Food products machinery	E1	15	3	0.3	4.5	0.2	0.4	2.2	8.7	8.5	17.2	0.3	0.3	3.7
3559	Special industry machinery, n.e.c.	-	24	10	1.3	19.2	0.9	1.7	8.9	40.3	25.1	65.7	2.5	0.9	15.8
356	General industrial machinery	-	65	17	2.6	33.7	2.0	3.8	22.5	81.3	62.9	142.5	3.8	1.6	34.0
3569	General industrial machinery, n.e.c.	-	24	6	0.7	7.7	0.5	0.9	4.9	16.0	15.6	31.1	0.8	(NA)	(NA)
357	Office and computing machines	-	26	11	5.0	84.9	1.5	2.7	18.7	189.8	106.1	295.4	12.4	(NA)	(NA)
3573	Electronic computing equipment	-	21	8	2.8	44.8	0.7	1.4	8.3	77.4	44.6	121.6	(D)	(NA)	(NA)
358	Refrigeration and service machinery	-	79	37	6.9	75.6	4.9	8.8	44.7	207.1	293.6	498.6	5.9	5.7	137.1
359	Miscellaneous machinery, except electrical	E2	353	46	3.7	45.3	2.9	5.8	30.8	83.2	46.6	127.3	5.4	3.2	49.0
36	Electric and electronic equipment	-	306	101	40.5	562.4	24.6	49.6	276.8	1 249.2	823.0	2 044.0	112.5	37.0	619.4
361	Electric distributing equipment	E1	13	6	0.6	5.7	0.4	0.8	3.6	13.4	21.1	34.5	0.1	0.5	8.0
362	Electrical industrial apparatus	E1	31	7	0.6	7.8	0.5	0.9	5.0	14.0	8.8	20.8	0.6	(NA)	(NA)
364	Electric lighting and wiring equipment	-	22	9	0.8	8.0	0.6	1.2	4.9	24.8	14.8	39.6	0.5	1.3	24.0
366	Communication equipment	-	87	35	21.9	336.4	11.3	22.7	132.1	804.6	516.0	1 307.0	70.5	(NA)	(NA)
367	Electronic components and accessories	-	96	27	14.0	174.3	9.7	19.8	108.8	318.9	162.1	471.6	36.7	16.0	276.0
369	Miscellaneous electrical equipment and supplies	-	26	11	1.7	21.0	1.4	2.8	16.4	52.0	63.5	112.9	3.4	1.6	28.9
3694	Engine electrical equipment	E1	7	4	0.3	2.7	0.3	0.5	2.0	5.5	4.7	10.1	0.4	(NA)	(NA)
37	Transportation equipment	-	220	70	37.5	666.6	20.9	43.3	341.4	1 493.1	1 649.5	3 041.4	39.1	42.9	939.2
371	Motor vehicles and equipment	-	99	36	8.0	138.1	6.5	14.8	109.2	332.5	1 052.5	1 382.4	(D)	7.0	224.6
3713	Truck and bus bodies	-	11	5	0.5	5.1	0.4	0.8	3.5	11.8	8.1	20.9	0.6	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Dallas-Fort Worth SMSA—Con.													
37	Transportation equipment—Con.													
372	Aircraft and parts	–	41	15	27.2	504.8	12.5	25.0	214.9	1 105.1	520.0	1 529.4	(D)	(NA)	(NA)
3728	Aircraft equipment, n.e.c.	E1	21	7	0.9	13.5	0.6	1.0	8.9	25.3	14.3	39.1	(D)	(NA)	(NA)
379	Miscellaneous transportation equipment	–	44	13	1.2	10.5	0.9	1.6	7.1	23.6	40.3	63.9	(D)	1.6	19.0
3792	Travel trailers and campers	–	27	7	0.6	5.6	0.5	0.9	3.7	13.2	23.5	36.5	(D)	1.1	13.8
3799	Transportation equipment, n.e.c.	E1	17	6	0.6	5.0	0.4	0.8	3.4	10.4	16.8	27.4	(D)	0.5	5.2
38	Instruments and related products	E1	115	33	3.9	42.5	2.7	5.3	22.3	93.4	63.3	153.0	6.7	2.4	36.8
39	Miscellaneous manufacturing industries	E1	249	40	4.4	43.9	3.2	5.8	25.3	99.8	79.1	177.8	3.4	3.3	54.3
391	Jewelry, silverware, and plated ware	–	26	2	0.3	3.3	0.2	0.5	2.1	11.8	9.9	21.3	(D)	0.3	7.2
394	Toys and sporting goods	–	40	7	1.3	12.6	1.0	1.7	7.6	34.6	29.2	62.9	1.3	0.6	11.6
3949	Sporting and athletic goods, n.e.c.	–	31	6	1.2	11.8	1.0	1.6	7.2	32.1	26.9	58.2	1.1	0.6	10.5
395	Pens, pencils, office and art supplies	–	21	4	0.4	2.9	0.3	0.5	1.6	5.2	7.3	12.4	0.2	(NA)	(NA)
399	Miscellaneous manufactures	E2	147	25	2.2	23.0	1.5	2.7	12.9	44.1	29.0	73.2	1.6	2.0	30.7
3993	Signs and advertising displays	E1	75	16	1.2	14.4	0.9	1.6	8.0	26.0	16.4	42.6	(D)	1.4	22.8
3999	Manufacturing industries, n.e.c.	E2	61	8	0.8	8.1	0.6	1.0	4.6	17.0	11.2	28.2	(D)	0.5	6.6
--	Administrative and auxiliary	–	202	104	16.0	289.7	–	–	–	–	–	–	–	(NA)	(NA)
	El Paso SMSA	–	**407**	**138**	**29.1**	**251.5**	**23.2**	**42.6**	**169.7**	**771.7**	**1 543.1**	**2 313.9**	**65.6**	**26.0**	**345.7**
20	Food and kindred products	–	70	23	3.3	36.0	2.4	5.1	23.2	91.1	225.4	315.3	14.2	2.3	37.7
201	Meat products	–	9	4	0.8	12.9	0.7	1.4	10.0	26.6	125.8	152.2	1.3	(NA)	(NA)
202	Dairy products	–	9	3	0.4	3.3	0.1	0.3	0.8	13.3	29.0	42.2	(D)	0.4	4.2
205	Bakery products	E1	11	4	0.3	3.7	0.2	0.3	1.4	7.4	7.2	14.6	0.2	0.4	5.0
2051	Bread, cake, and related products	E1	11	4	0.3	3.7	0.2	0.3	1.4	7.4	7.2	14.6	0.2	0.4	5.0
208	Beverages	–	8	4	0.3	3.0	0.1	0.2	0.8	8.3	8.6	16.6	(D)	(NA)	(NA)
2086	Bottled and canned soft drinks	–	8	4	0.3	3.0	0.1	0.2	0.8	8.3	8.6	16.6	(D)	(NA)	(NA)
23	Apparel and other textile products	–	61	35	14.6	88.8	12.9	22.3	69.7	176.7	170.6	351.6	1.9	15.0	121.8
232	Men's and boys' furnishings	–	27	22	12.6	77.2	11.1	19.1	60.9	157.6	156.3	319.1	1.6	14.0	114.8
233	Women's and misses' outerwear	E1	19	10	0.8	4.9	0.6	1.2	3.6	9.5	6.1	15.4	0.2	0.3	2.0
2339	Women's and misses' outerwear, n.e.c.	E1	3	2	0.3	1.6	0.2	0.4	1.2	4.5	0.8	5.2	(D)	(NA)	(NA)
24	Lumber and wood products	–	21	6	0.6	4.8	0.6	1.0	3.8	10.5	29.2	39.8	0.5	0.6	6.2
243	Millwork, plywood, and structural members	–	16	6	0.6	4.7	0.5	1.0	3.7	10.3	29.0	39.3	(D)	0.5	3.8
2431	Millwork	–	12	5	0.5	4.1	0.5	0.9	3.3	9.2	27.9	37.2	0.4	(NA)	(NA)
25	Furniture and fixtures	–	10	4	0.4	2.5	0.3	0.6	2.0	4.9	4.3	9.1	(D)	0.3	4.9
27	Printing and publishing	–	62	9	1.1	10.6	0.7	1.3	5.6	33.7	10.6	44.8	0.8	0.9	15.4
2711	Newspapers	–	8	4	0.6	5.8	0.3	0.5	2.2	26.3	5.6	31.9	0.3	(NA)	(NA)
31	Leather and leather products	–	8	6	1.4	10.1	1.2	2.4	8.2	25.5	24.6	47.6	(D)	1.0	13.4
32	Stone, clay, and glass products	E1	25	10	0.8	8.9	0.6	1.2	6.2	26.3	24.4	51.0	4.1	0.5	11.0
327	Concrete, gypsum, and plaster products	E2	17	7	0.5	5.4	0.4	0.8	3.5	16.2	17.5	33.5	(D)	(NA)	(NA)
34	Fabricated metal products	E1	30	11	0.8	8.5	0.7	1.3	5.5	14.3	21.2	34.7	0.5	0.7	9.7
344	Fabricated structural metal products	E1	21	7	0.7	7.3	0.6	1.1	4.7	11.9	17.5	28.7	0.5	0.6	8.5
3441	Fabricated structural metal	E1	4	4	0.4	4.3	0.3	0.5	2.3	6.1	12.8	18.5	0.2	0.4	3.9
3444	Sheet metal work	–	5	3	0.3	2.2	0.2	0.5	1.9	4.2	3.2	7.0	(D)	(NA)	(NA)
35	Machinery, except electrical	–	24	6	0.5	4.4	0.3	0.4	2.5	10.5	9.2	19.7	1.6	(NA)	(NA)
39	Miscellaneous manufacturing industries	E3	26	3	0.3	2.0	0.2	0.4	1.2	4.7	7.4	12.2	0.1	(NA)	(NA)
--	Administrative and auxiliary	–	9	6	1.0	17.3	–	–	–	–	–	–	–	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Galveston-Texas City SMSA	-	130	44	11.3	206.1	8.0	16.5	142.2	1 460.7	4 308.3	5 677.6	125.2	10.9	887.5
27	Printing and publishing	-	20	4	0.3	3.4	0.1	0.3	1.8	6.6	5.2	11.8	1.4	0.4	5.6
29	Petroleum and coal products	-	7	4	2.6	54.0	1.8	3.8	36.6	370.4	3 061.1	3 414.7	(D)	2.3	183.3
37	Transportation equipment	-	15	6	1.3	19.4	1.1	2.4	15.7	33.7	16.2	49.9	1.5	(NA)	(NA)
3731	Ship building and repairing	-	7	4	1.2	18.4	1.0	2.2	15.0	31.5	13.6	45.1	(D)	(NA)	(NA)
	Houston SMSA	-	4 081	1 342	210.1	3 362.7	126.5	257.4	1 718.7	9 844.4	18 247.0	27 888.0	2 451.5	162.7	4 179.4
20	Food and kindred products	-	157	66	12.0	170.2	7.7	15.9	99.6	605.8	1 559.4	2 147.1	45.9	12.3	402.0
201	Meat products	-	28	12	1.3	16.3	1.0	1.9	11.2	28.3	152.5	180.6	(D)	1.6	17.1
2013	Sausages and other prepared meats	-	12	7	0.6	8.6	0.4	0.8	5.4	15.7	63.4	78.9	0.7	(NA)	(NA)
202	Dairy products	-	7	6	0.9	10.2	0.4	0.7	3.5	30.6	71.1	101.7	(D)	1.2	18.9
204	Grain mill products	-	18	8	1.7	26.7	1.2	2.6	14.1	134.5	338.8	471.2	(D)	1.5	77.2
2044	Rice milling	-	7	5	1.5	24.4	1.1	2.2	12.7	129.2	328.2	455.1	(D)	1.1	69.8
205	Bakery products	-	29	10	2.7	37.4	1.8	3.7	22.9	100.0	62.3	162.6	(D)	2.8	57.4
208	Beverages	-	14	10	2.4	34.3	1.0	2.1	14.6	129.0	187.5	316.1	(D)	2.1	63.3
209	Miscellaneous foods and kindred products	-	43	12	2.1	31.1	1.5	3.3	23.0	131.4	610.9	738.6	(D)	2.2	134.9
22	Textile mill products	E1	18	3	0.3	2.7	0.3	0.5	2.0	3.1	3.8	6.9	0.3	0.3	3.3
23	Apparel and other textile products	E1	79	10	1.2	8.9	1.1	2.1	6.2	14.2	19.3	33.4	0.3	1.5	12.3
239	Miscellaneous fabricated textile products	E2	55	5	0.6	4.3	0.5	1.0	3.1	7.5	11.0	18.5	(D)	0.7	6.8
2391	Curtains and draperies	E1	22	4	0.3	2.4	0.3	0.6	1.8	4.0	4.8	8.7	(D)	0.3	1.7
24	Lumber and wood products	E1	147	41	3.2	34.4	2.5	5.1	20.7	75.3	116.9	184.9	4.4	2.8	34.1
242	Sawmills and planing mills	E2	24	9	0.6	4.5	0.5	1.1	3.4	10.1	14.3	24.0	1.4	0.6	8.7
243	Millwork, plywood, and structural members	E2	40	14	0.9	9.2	0.6	1.2	5.0	13.3	29.8	42.7	0.8	0.9	8.2
2431	Millwork	E2	19	7	0.5	5.9	0.3	0.6	2.7	7.8	23.4	30.9	0.4	0.6	5.6
244	Wood containers	-	12	4	0.4	4.6	0.3	0.6	2.7	7.2	5.4	12.7	0.2	0.4	3.8
249	Miscellaneous wood products	-	31	7	0.5	5.1	0.4	0.9	3.5	8.2	23.8	32.1	1.1	0.5	8.2
2499	Wood products, n.e.c.	E1	28	4	0.3	2.9	0.3	0.5	2.0	6.5	9.7	16.2	(D)	0.3	3.0
25	Furniture and fixtures	E2	85	31	1.9	19.9	1.5	2.8	12.9	34.0	41.6	75.4	1.3	2.2	29.5
251	Household furniture	E3	49	19	1.0	7.9	0.8	1.5	5.6	15.7	18.3	33.9	0.5	1.3	14.2
254	Partitions and fixtures	E1	23	9	0.8	10.6	0.6	1.0	6.3	16.3	20.6	36.9	0.7	0.6	9.3
2643	Bags, except textile bags	-	6	3	0.5	5.3	0.4	0.9	4.2	10.9	17.3	28.1	1.5	0.7	7.7
265	Paperboard containers and boxes	-	19	13	1.1	14.4	0.8	1.8	9.5	25.8	54.4	80.0	2.6	1.2	19.0
2653	Corrugated and solid fiber boxes	-	13	10	1.0	12.1	0.7	1.5	7.8	21.1	45.6	66.6	2.4	1.0	15.4
27	Printing and publishing	E1	532	76	11.4	138.7	5.5	10.5	67.1	269.5	155.6	424.6	10.9	8.2	137.6
2711	Newspapers	-	59	11	5.3	59.5	1.7	3.1	24.2	126.4	62.7	189.0	4.9	3.9	70.3
2721	Periodicals	-	30	5	1.0	14.8	(Z)	0.2	0.4	26.7	23.0	49.7	0.3	0.3	5.6
275	Commercial printing	E3	337	34	3.3	41.6	2.5	4.7	28.4	74.6	51.3	125.6	4.1	2.9	43.3
2761	Manifold business forms	-	8	5	0.4	4.5	0.2	0.5	2.6	9.7	8.1	17.6	0.4	0.3	3.7
278	Blankbooks and bookbinding	E2	17	9	0.6	7.0	0.5	1.0	4.8	12.9	4.8	17.6	0.5	0.5	6.2
2782	Blankbooks and looseleaf binders	-	7	6	0.4	5.1	0.4	0.7	3.3	9.8	3.8	13.6	(D)	(NA)	(NA)
279	Printing trade services	E1	50	8	0.5	7.1	0.4	0.7	5.0	11.7	2.4	14.1	0.6	0.3	5.8
2791	Typesetting	E1	43	7	0.3	4.4	0.3	0.5	3.1	7.3	1.1	8.5	0.3	(NA)	(NA)
28	Chemicals and allied products	-	256	122	27.8	544.3	16.3	32.8	286.9	3 645.5	4 703.2	8 271.1	1 653.9	22.4	1 361.5
281	Industrial inorganic chemicals	-	33	19	2.2	40.3	1.5	3.0	25.4	234.1	237.4	475.7	113.2	1.7	88.2
2819	Industrial inorganic chemicals, n.e.c.	-	19	11	0.8	13.1	0.5	1.0	8.1	48.5	52.8	98.1	21.3	(NA)	(NA)
282	Plastics materials and synthetics	-	20	17	4.5	89.6	2.8	5.8	51.0	583.0	928.5	1 468.6	252.2	3.5	219.8
284	Soaps, cleaners, and toilet goods	E1	34	3	0.3	4.9	0.2	0.4	2.8	32.0	49.3	81.0	(D)	0.4	18.1
2851	Paints and allied products	E1	30	16	1.2	17.3	0.5	1.1	6.0	57.1	79.8	136.1	(D)	1.3	40.4
286	Industrial organic chemicals	-	48	37	14.8	310.7	8.4	16.9	158.7	2 398.9	2 967.7	5 340.8	1 135.7	12.2	884.2
289	Miscellaneous chemical products	-	52	16	1.5	22.2	0.9	1.8	11.5	109.4	123.9	232.5	9.1	1.9	48.1
2899	Chemical preparations, n.e.c.	-	34	11	1.1	16.3	0.6	1.3	7.9	87.0	84.2	171.1	7.0	1.5	33.4
29	Petroleum and coal products	-	36	19	10.5	215.3	6.5	14.2	128.8	1 268.7	7 817.7	9 029.3	271.2	9.1	471.5
2911	Petroleum refining	-	14	12	10.0	208.9	6.1	13.4	124.6	1 250.2	7 786.5	8 979.3	269.0	8.7	458.1
295	Paving and roofing materials	-	8	5	0.4	4.1	0.3	0.6	3.2	12.9	24.8	37.7	(D)	0.4	10.4
30	Rubber and miscellaneous plastics products	E1	164	56	5.3	80.1	4.1	8.3	39.4	128.7	115.3	239.0	11.0	3.4	51.6
3069	Fabricated rubber products, n.e.c.	-	18	9	0.9	11.7	0.7	1.3	7.6	22.0	12.1	34.0	(D)	0.6	6.1

See footnotes at end of table.

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[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Houston SMSA—Con.														
32	Stone, clay, and glass products	-	192	80	6.7	88.1	5.4	11.0	64.6	229.3	315.7	547.5	21.6	7.1	148.2
3231	Products of purchased glass	-	11	3	0.3	3.0	0.2	0.4	2.1	6.7	6.6	13.1	(D)	(NA)	(NA)
3241	Cement, hydraulic	-	4	4	0.5	9.7	0.4	0.8	7.6	38.3	47.5	86.2	(D)	0.6	29.6
3272	Concrete products, n.e.c.	E1	44	17	0.9	10.6	0.8	1.6	7.7	31.7	24.2	55.5	1.6	1.2	17.8
3273	Ready-mixed concrete	-	44	25	2.3	32.0	1.9	4.0	24.0	81.2	157.6	238.8	10.8	1.7	31.9
329	Miscellaneous nonmetallic mineral products	-	51	21	1.7	20.9	1.3	2.6	14.1	43.4	56.8	103.1	2.0	2.4	44.2
3293	Gaskets, packing, and sealing devices	-	19	8	0.8	10.6	0.7	1.3	6.7	22.8	21.8	44.3	0.7	1.4	19.5
33	Primary metal industries	-	93	43	10.5	192.3	7.7	15.6	128.5	362.5	624.7	960.9	147.7	10.1	206.6
3315	Steel wire and related products	-	12	7	0.6	6.5	0.5	1.0	4.3	9.5	33.3	42.2	2.2	(NA)	(NA)
34	Fabricated metal products	-	655	268	30.9	432.2	23.0	47.0	288.6	976.5	1 054.9	2 015.7	79.7	22.6	410.1
341	Metal cans and shipping containers	E1	13	10	1.8	31.9	1.5	3.2	24.9	65.8	175.8	240.4	7.0	1.8	50.3
3411	Metal cans	E1	5	5	1.3	24.2	1.0	2.2	19.4	43.2	144.9	187.4	5.1	1.4	42.5
3412	Metal barrels, drums, and pails	-	8	5	0.5	7.7	0.4	1.0	5.5	22.6	30.9	53.0	1.9	0.4	7.8
344	Fabricated structural metal products	E1	290	131	13.3	175.5	9.7	19.4	110.2	386.6	432.8	826.7	19.8	10.2	176.6
3441	Fabricated structural metal	-	68	37	3.4	44.1	2.6	5.5	29.6	78.6	95.6	174.8	5.5	3.0	40.9
3442	Metal doors, sash, and trim	-	17	6	0.8	7.6	0.6	1.2	4.3	16.5	20.6	36.8	0.8	0.9	8.5
3443	Fabricated plate work (boiler shops)	-	66	42	5.1	73.2	3.7	7.4	47.6	178.3	146.4	331.1	9.1	3.6	70.1
3444	Sheet metal work	E3	64	18	1.2	13.9	0.8	1.4	7.9	27.0	36.1	62.6	1.7	(NA)	(NA)
3446	Architectural metal work	-	38	6	0.5	5.3	0.3	0.7	3.3	13.6	13.7	26.8	0.4	(NA)	(NA)
3448	Prefabricated metal buildings	E1	23	13	2.0	25.7	1.4	2.6	14.7	61.5	88.6	150.4	2.1	(NA)	(NA)
3449	Miscellaneous metal work	-	14	9	0.4	5.6	0.2	0.5	2.7	11.1	31.8	44.2	0.3	0.6	13.2
345	Screw machine products, bolts, etc.	E2	22	10	1.0	12.4	0.8	1.6	8.4	29.2	23.5	53.1	1.5	0.7	11.6
3452	Bolts, nuts, rivets, and washers	E2	16	8	1.0	11.4	0.7	1.4	7.6	26.3	21.1	47.9	1.4	0.6	10.4
346	Metal forgings and stampings	-	35	14	1.9	28.1	1.4	2.8	18.5	94.0	77.8	166.1	(D)	0.6	12.5
3462	Iron and steel forgings	-	15	8	1.4	22.0	1.0	2.1	14.4	79.7	67.7	142.0	(D)	0.4	9.9
3469	Metal stampings, n.e.c.	-	20	6	0.5	6.1	0.4	0.8	4.1	14.3	10.1	24.2	0.3	(NA)	(NA)
347	Metal services, n.e.c.	E1	93	28	1.8	21.1	1.5	3.3	15.5	46.0	26.9	72.3	4.2	1.1	17.5
3471	Plating and polishing	E3	37	6	0.5	5.0	0.4	0.8	3.7	9.4	3.4	12.8	(D)	0.4	4.8
3479	Metal coating and allied services	-	56	22	1.3	16.2	1.1	2.5	11.8	36.6	23.5	59.6	(D)	0.7	12.7
349	Miscellaneous fabricated metal products	-	178	72	10.9	161.0	8.0	16.4	109.6	350.4	314.8	649.2	28.7	8.0	138.7
3494	Valves and pipe fittings	-	59	33	5.7	82.2	4.1	8.7	55.6	181.7	162.0	333.3	14.5	4.3	65.2
3496	Miscellaneous fabricated wire products	E7	21	5	0.4	4.3	0.3	0.7	3.0	11.6	17.0	28.4	0.4	1.0	15.4
3498	Fabricated pipe and fittings	-	32	19	3.7	63.6	2.7	5.5	44.0	134.2	117.5	246.7	11.9	1.7	41.9
3499	Fabricated metal products, n.e.c.	E3	58	11	0.8	8.2	0.6	1.2	5.3	17.3	15.2	32.0	1.8	0.9	14.5
35	Machinery, except electrical	-	899	258	42.0	621.0	27.9	57.6	374.5	1 454.4	1 022.0	2 511.8	142.0	26.8	542.8
352	Farm and garden machinery	-	11	2	0.4	4.9	0.2	0.4	1.7	23.1	18.7	41.8	0.6	(NA)	(NA)
353	Construction and related machinery	-	162	93	27.8	421.7	18.2	37.7	255.5	1 073.6	676.0	1 786.0	119.5	17.5	381.0
3531	Construction machinery	E1	18	8	0.8	10.4	0.6	1.1	6.6	25.3	26.1	50.7	1.1	0.3	3.9
3533	Oil field machinery	-	119	72	25.7	394.0	16.8	34.9	238.4	1 007.0	604.8	1 650.2	116.5	16.2	356.9
3536	Hoists, cranes, and monorails	E2	10	4	0.5	7.1	0.4	0.8	4.7	15.3	13.1	28.0	0.3	0.4	7.3
354	Metalworking machinery	-	50	10	1.1	14.5	0.8	1.5	8.5	25.8	9.0	37.4	0.8	0.8	17.8
3544	Special dies, tools, jigs, and fixtures	E2	27	2	0.3	2.7	0.2	0.4	1.9	2.7	1.8	4.5	0.3	(NA)	(NA)
355	Special industry machinery	-	35	8	1.2	18.1	0.7	1.4	9.1	36.6	25.6	59.8	4.1	0.5	8.8
356	General industrial machinery	E1	94	40	3.0	41.0	1.9	3.8	22.9	76.8	67.4	143.9	3.7	2.3	32.4
3561	Pumps and pumping equipment	-	19	13	1.1	16.4	0.7	1.4	9.4	27.5	24.9	52.2	1.0	1.0	14.6
3564	Blowers and fans	-	11	7	0.5	6.2	0.3	0.5	3.0	9.1	11.5	21.4	0.6	0.3	3.1
3569	General industrial machinery, n.e.c.	E1	33	11	0.6	8.0	0.4	0.8	4.4	17.0	15.9	32.3	1.0	0.3	5.0
358	Refrigeration and service machinery	E1	33	8	0.6	7.5	0.5	0.8	4.5	16.3	17.7	33.4	0.8	0.4	6.0
359	Miscellaneous machinery, except electrical	E2	491	88	5.9	84.3	4.6	9.5	59.2	150.7	71.9	219.1	9.4	3.3	56.7
36	Electric and electronic equipment	-	172	54	11.4	157.7	7.7	15.6	91.6	407.9	303.0	686.9	33.1	8.0	165.6
361	Electric distributing equipment	-	22	7	0.9	14.0	0.7	1.4	8.0	31.0	37.9	69.4	(D)	(NA)	(NA)

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	Houston SMSA—Con.														
36	Electric and electronic equipment—Con.														
362	Electrical industrial apparatus	E2	27	10	0.7	11.4	0.4	0.8	5.4	21.4	16.6	35.7	(D)	1.3	26.5
366	Communication equipment	–	25	11	2.3	32.3	1.5	2.9	15.8	77.0	56.3	125.8	4.3	1.1	15.4
369	Miscellaneous electrical equipment and supplies	–	28	9	1.0	10.4	0.5	1.0	4.1	36.2	12.4	46.6	2.1	1.1	24.8
37	Transportation equipment	E1	105	32	2.9	37.8	2.3	4.5	27.4	70.5	79.6	144.9	3.0	3.5	51.8
371	Motor vehicles and equipment	E4	37	10	0.5	6.2	0.4	0.8	4.5	13.1	17.3	30.1	0.9	0.3	4.3
373	Ship and boat building and repairing	E1	50	16	1.5	20.0	1.2	2.4	14.9	30.5	19.4	48.7	1.5	1.8	21.2
3731	Ship building and repairing	–	20	11	1.2	15.8	1.0	1.8	11.9	22.1	12.6	34.7	1.2	1.5	19.2
3732	Boat building and repairing	E2	30	5	0.3	4.2	0.2	0.6	3.0	8.4	6.8	14.0	0.3	(NA)	(NA)
38	Instruments and related products	E3	117	37	2.7	33.7	1.8	3.6	17.9	77.7	42.0	117.7	4.4	1.7	38.0
384	Medical instruments and supplies	E1	25	6	0.4	4.5	0.2	0.5	2.0	8.5	5.8	14.5	0.5	(NA)	(NA)
3841	Surgical and medical instruments	–	9	4	0.3	3.1	0.1	0.3	1.3	4.9	3.3	8.4	0.4	(NA)	(NA)
394	Toys and sporting goods	E2	30	3	0.3	2.6	0.2	0.5	1.8	5.0	5.2	10.2	0.4	(NA)	(NA)
399	Miscellaneous manufactures	E2	91	16	1.0	11.3	0.8	1.5	7.5	23.7	18.1	41.1	1.0	1.0	13.4
3999	Manufacturing industries, n.e.c.	E2	35	6	0.4	4.1	0.3	0.6	2.4	12.6	10.6	22.5	0.5	0.4	4.3
	Killeen-Temple SMSA	–	**116**	**47**	**5.8**	**55.3**	**4.4**	**9.1**	**37.8**	**159.6**	**169.3**	**332.0**	**(D)**	**5.1**	**82.1**
23	Apparel and other textile products	E1	6	5	0.5	3.2	0.5	0.9	2.7	4.2	4.1	8.2	0.1	0.5	2.5
24	Lumber and wood products	E1	7	3	0.3	2.7	0.2	0.4	2.0	5.8	10.9	16.7	0.1	0.3	4.4
25	Furniture and fixtures	–	8	7	1.3	9.8	1.0	2.0	6.7	18.8	22.5	41.1	1.0	1.3	13.1
27	Printing and publishing	–	24	5	0.4	4.6	0.2	0.4	2.2	10.4	8.9	19.2	(D)	0.4	5.6
32	Stone, clay, and glass products	–	9	5	0.4	4.4	0.3	0.6	3.1	15.7	12.3	28.0	0.9	0.3	7.9
35	Machinery, except electrical	E1	11	4	0.3	3.2	0.3	0.5	2.1	4.0	6.0	10.4	0.5	(NA)	(NA)
	Laredo SMSA	–	**60**	**17**	**1.5**	**11.9**	**1.1**	**2.1**	**7.4**	**26.8**	**55.4**	**85.1**	**0.9**	**1.2**	**10.5**
23	Apparel and other textile products	–	5	4	0.4	2.6	0.4	0.7	2.1	8.0	6.3	14.4	(Z)	0.4	2.4
	Longview SMSA	–	**247**	**96**	**15.9**	**206.3**	**12.0**	**23.9**	**139.2**	**641.2**	**761.9**	**1 387.4**	**52.4**	**13.9**	**295.9**
20	Food and kindred products	–	15	8	1.0	16.1	0.6	1.0	9.3	91.7	117.9	209.6	(D)	(NA)	(NA)
23	Apparel and other textile products	–	11	7	1.0	6.2	0.9	1.7	5.3	18.4	12.9	29.3	0.2	(NA)	(NA)
24	Lumber and wood products	–	19	4	0.4	3.6	0.3	0.7	2.7	11.7	10.4	22.2	1.0	(NA)	(NA)
27	Printing and publishing	E1	22	3	0.4	3.1	0.3	0.5	2.1	6.9	3.0	9.9	0.5	(NA)	(NA)
2711	Newspapers	–	7	3	0.3	2.5	0.2	0.4	1.6	5.5	2.2	7.7	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	17	6	1.0	8.8	0.9	1.7	6.8	18.5	16.2	34.1	1.6	(NA)	(NA)
33	Primary metal industries	–	12	5	0.9	11.2	0.7	1.4	8.4	16.8	59.0	75.0	3.0	(NA)	(NA)
34	Fabricated metal products	–	34	19	3.3	44.2	2.4	4.9	31.8	86.5	118.8	202.8	3.3	(NA)	(NA)
344	Fabricated structural metal products	–	16	10	1.3	16.7	1.0	2.0	12.3	32.5	30.6	60.4	1.6	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	–	7	5	0.6	8.3	0.5	0.9	6.2	14.8	14.5	28.6	1.0	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	12	4	0.3	2.9	0.2	0.4	2.1	7.1	10.1	17.3	0.3	(NA)	(NA)
35	Machinery, except electrical	–	55	19	2.7	36.1	2.0	4.1	25.1	74.6	83.7	152.3	7.1	(NA)	(NA)
353	Construction and related machinery	–	8	8	2.0	27.2	1.4	3.0	19.0	55.4	69.3	119.1	(D)	(NA)	(NA)
356	General industrial machinery	E2	12	3	0.3	4.3	0.2	0.5	2.8	10.4	8.6	18.8	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	24	4	0.3	3.1	0.2	0.4	2.2	5.0	2.8	7.8	0.4	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E1	24	4	0.3	3.1	0.2	0.4	2.2	5.0	2.8	7.8	0.4	(NA)	(NA)
37	Transportation equipment	–	11	6	1.5	16.6	1.2	2.3	11.2	33.9	58.7	94.0	3.2	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Lubbock SMSA	-	290	68	12.9	137.8	9.3	18.1	76.5	349.1	487.1	813.3	37.5	7.1	114.9
20	Food and kindred products	-	29	17	2.0	22.1	1.2	2.8	12.2	83.5	189.7	262.5	3.4	2.1	46.5
207	Fats and oils	-	3	3	0.5	5.6	0.4	1.1	4.1	37.1	71.5	98.5	(D)	(NA)	(NA)
2074	Cottonseed oil mills	-	3	3	0.5	5.6	0.4	1.1	4.1	37.1	71.5	98.5	(D)	(NA)	(NA)
23	Apparel and other textile products	-	13	4	0.4	2.3	0.3	0.6	1.7	6.5	7.0	13.4	0.1	0.3	3.1
27	Printing and publishing	E1	40	2	0.5	4.8	0.3	0.4	2.4	14.3	6.0	20.3	0.6	0.6	9.9
30	Rubber and miscellaneous plastics products	-	4	3	0.3	3.8	0.2	0.5	2.5	7.1	10.0	17.0	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	-	4	3	0.3	3.8	0.2	0.5	2.5	7.1	10.0	17.0	(D)	(NA)	(NA)
34	Fabricated metal products	E1	36	7	0.6	5.6	0.4	0.8	3.7	13.6	17.7	29.9	1.0	0.5	5.0
344	Fabricated structural metal products	E2	20	5	0.3	3.4	0.2	0.5	2.1	7.8	10.4	17.9	0.5	0.4	3.8
35	Machinery, except electrical	-	66	19	6.4	71.3	4.6	9.0	36.8	164.2	166.0	323.2	(D)	1.5	26.8
356	General industrial machinery	-	19	10	0.8	8.3	0.6	1.2	5.5	30.6	25.3	51.9	(D)	0.3	4.0
3561	Pumps and pumping equipment	-	12	7	0.5	5.4	0.4	0.8	3.6	24.7	19.5	40.5	(D)	(NA)	(NA)
	McAllen-Pharr-Edinburg SMSA	-	169	45	5.5	41.1	4.4	8.6	29.1	115.2	158.4	271.8	9.9	3.1	54.1
20	Food and kindred products	-	43	15	1.7	11.8	1.2	2.4	7.5	35.7	74.0	109.8	2.2	1.4	24.7
203	Preserved fruits and vegetables	-	16	10	1.1	7.2	0.9	1.7	5.6	25.9	47.0	72.9	1.1	0.9	17.7
2033	Canned fruits and vegetables	-	8	4	0.6	4.4	0.5	0.9	3.2	18.9	35.0	53.9	(D)	(NA)	(NA)
23	Apparel and other textile products	-	10	7	1.5	8.6	1.4	2.8	7.7	21.2	23.3	44.3	(D)	(NA)	(NA)
26	Paper and allied products	-	3	3	0.3	3.1	0.2	0.4	1.9	7.0	13.6	20.9	(D)	(NA)	(NA)
265	Paperboard containers and boxes	-	3	3	0.3	3.1	0.2	0.4	1.9	7.0	13.6	20.9	(D)	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	3	3	0.3	3.1	0.2	0.4	1.9	7.0	13.6	20.9	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	10	5	0.6	4.4	0.5	1.0	3.4	9.5	9.0	18.5	0.6	(NA)	(NA)
35	Machinery, except electrical	E1	24	3	0.5	4.4	0.4	0.9	3.4	10.2	8.2	17.4	1.4	(NA)	(NA)
	Midland SMSA	-	94	24	2.0	23.4	1.3	2.4	11.1	53.8	47.3	99.9	7.6	1.4	23.0
27	Printing and publishing	-	18	5	0.3	2.8	0.2	0.3	1.5	7.0	2.2	9.2	0.9	(NA)	(NA)
35	Machinery, except electrical	-	17	5	0.5	7.0	0.4	0.7	4.1	22.0	16.9	38.0	4.2	(NA)	(NA)
--	Administrative and auxiliary	-	5	3	0.3	4.6	-	-	-	-	-	-	-	(NA)	(NA)
	Odessa SMSA	-	220	67	5.9	86.7	4.0	8.4	51.4	232.9	508.0	734.6	(D)	4.0	91.8
28	Chemicals and allied products	-	16	8	1.0	15.6	0.7	1.4	10.7	48.0	189.7	230.1	3.1	0.9	36.8
35	Machinery, except electrical	E1	103	29	2.5	34.9	1.9	4.3	23.8	70.2	65.4	133.3	7.7	1.0	19.4
353	Construction and related machinery	-	28	13	1.3	18.3	0.9	2.1	11.6	38.7	42.1	78.1	4.6	0.3	5.8
356	General industrial machinery	-	8	5	0.3	4.5	0.3	0.6	3.4	7.0	11.5	18.4	0.9	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	58	9	0.8	10.3	0.6	1.3	7.7	21.0	9.6	31.3	2.0	0.5	9.7
3599	Machinery, except electrical, n.e.c.	E1	55	6	0.7	9.4	0.5	1.3	7.0	19.0	8.6	28.3	(D)	(NA)	(NA)
	San Angelo SMSA	-	100	27	4.8	42.6	3.4	6.1	25.0	126.3	158.9	291.3	6.2	3.5	78.1
20	Food and kindred products	-	22	6	0.8	8.1	0.5	1.1	4.8	24.9	70.0	94.7	3.1	0.7	26.5
27	Printing and publishing	-	16	2	0.4	3.1	0.2	0.4	1.4	8.6	2.9	11.5	(D)	0.4	5.4
	San Antonio SMSA	-	944	286	40.1	399.2	28.7	55.7	231.8	905.3	1 130.8	2 017.7	92.5	34.9	482.0
20	Food and kindred products	-	126	58	8.4	82.9	5.5	10.8	47.4	189.0	460.0	650.8	14.7	8.5	160.6
201	Meat products	-	22	11	2.2	21.7	1.8	3.7	16.2	35.0	195.8	232.5	3.3	2.3	34.2
202	Dairy products	-	6	4	0.6	6.2	0.2	0.5	2.0	13.0	43.2	56.1	0.8	0.7	12.1
203	Preserved fruits and vegetables	-	10	3	0.5	4.1	0.4	0.8	2.7	13.3	16.0	29.3	(D)	0.8	18.4
204	Grain mill products	-	8	6	0.4	3.8	0.3	0.7	2.0	11.4	35.9	48.1	(D)	0.4	7.3
205	Bakery products	-	18	10	1.5	14.8	0.9	1.7	7.9	37.5	30.1	67.5	1.7	1.2	18.9
208	Beverages	-	16	10	1.9	21.9	0.9	1.8	9.5	44.5	101.7	146.1	5.7	1.9	50.2
209	Miscellaneous foods and kindred products	E1	37	12	1.0	8.6	0.7	1.3	5.8	28.2	25.7	53.8	1.3	0.9	14.7
2099	Food preparations, n.e.c.	E1	29	12	1.0	8.3	0.7	1.3	5.6	27.5	25.5	52.9	(D)	0.8	14.3

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	San Antonio SMSA—Con.														
23	Apparel and other textile products	-	52	25	5.2	30.5	4.7	8.6	24.0	71.5	60.7	130.9	(D)	4.8	34.8
2311	Men's and boys' suits and coats	-	6	5	1.5	9.9	1.3	2.4	7.0	21.9	6.1	27.6	(D)	(NA)	(NA)
233	Women's and misses' outerwear	-	12	6	0.7	4.1	0.7	1.3	3.4	19.9	1.6	21.0	(D)	0.4	3.1
239	Miscellaneous fabricated textile products	-	19	6	1.2	7.7	1.1	2.1	6.2	12.8	36.4	48.8	0.3	0.8	8.1
2431	Millwork	E1	12	4	0.3	2.4	0.2	0.5	1.6	5.0	8.3	13.3	0.1	0.4	2.7
27	Printing and publishing	E1	168	24	2.9	30.2	1.8	3.2	17.3	58.3	36.4	94.5	2.0	3.1	38.6
275	Commercial printing	E4	101	13	0.9	8.9	0.7	1.2	6.4	15.4	12.9	28.2	1.0	0.9	10.0
2751	Commercial printing, letterpress	E4	56	4	0.3	2.6	0.2	0.4	1.8	4.9	4.1	9.0	(D)	(NA)	(NA)
2752	Commercial printing, lithographic	E4	39	8	0.5	6.0	0.5	0.8	4.4	10.0	8.6	18.5	0.7	0.6	6.3
283	Drugs	E1	8	3	0.4	5.1	0.2	0.4	1.6	16.6	7.7	24.9	0.4	(NA)	(NA)
29	Petroleum and coal products	-	14	4	0.3	4.0	0.2	0.4	2.5	19.7	58.4	77.8	5.4	(NA)	(NA)
32	Stone, clay, and glass products	-	67	24	2.7	30.0	2.1	4.4	19.9	65.5	96.0	163.1	15.6	2.9	56.4
3241	Cement, hydraulic	-	3	3	0.7	9.4	0.5	1.0	6.1	25.5	37.3	64.6	9.4	0.6	24.7
325	Structural clay products	-	5	3	0.3	2.2	0.2	0.5	1.7	5.8	2.2	7.9	(D)	0.4	3.1
327	Concrete, gypsum, and plaster products	-	38	18	1.6	17.3	1.3	2.8	11.4	31.7	55.0	86.6	5.3	1.7	26.8
3272	Concrete products, n.e.c.	E1	16	6	0.5	4.9	0.4	0.9	3.6	6.8	8.9	15.7	(D)	0.7	8.0
3273	Ready-mixed concrete	-	16	8	0.9	10.7	0.7	1.5	6.7	19.0	40.8	59.7	3.7	0.7	14.5
34	Fabricated metal products	-	108	30	4.1	45.3	3.1	6.3	32.5	97.9	97.3	193.3	5.6	3.2	46.9
344	Fabricated structural metal products	-	71	22	2.7	27.0	1.9	3.8	16.9	59.4	69.0	127.8	3.8	1.6	13.1
3441	Fabricated structural metal	E1	13	7	1.0	10.9	0.7	1.5	7.1	27.6	22.7	50.1	1.0	0.7	5.6
3442	Metal doors, sash, and trim	-	11	5	0.3	2.8	0.2	0.5	1.9	4.4	6.2	10.4	(D)	(NA)	(NA)
3444	Sheet metal work	E1	19	6	0.6	5.2	0.5	1.0	3.6	9.1	11.4	20.7	0.6	(NA)	(NA)
35	Machinery, except electrical	-	78	21	4.9	59.7	2.5	4.9	22.5	193.6	115.0	295.7	(D)	2.6	40.0
358	Refrigeration and service machinery	-	14	7	1.5	14.9	1.0	1.8	8.0	39.1	48.0	81.2	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E5	30	4	0.3	3.0	0.2	0.3	1.9	5.8	2.6	8.3	0.3	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E5	30	4	0.3	3.0	0.2	0.3	1.9	5.8	2.6	8.3	0.3	(NA)	(NA)
37	Transportation equipment	-	36	7	1.4	16.2	1.2	2.3	9.6	36.5	39.6	71.8	0.5	1.7	22.9
371	Motor vehicles and equipment	E3	16	2	0.3	2.7	0.2	0.4	1.9	4.6	5.9	9.8	0.1	(NA)	(NA)
399	Miscellaneous manufactures	E1	39	13	0.6	5.3	0.4	0.8	2.9	9.3	8.4	17.6	0.4	0.6	5.2
3993	Signs and advertising displays	-	18	6	0.3	2.3	0.2	0.3	1.4	4.0	2.2	6.0	0.2	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	E1	15	5	0.3	2.6	0.2	0.4	1.2	4.6	5.1	9.7	(D)	0.3	2.5
--	Administrative and auxiliary	-	20	8	1.0	17.7	-	-	-	-	-	-	-	(NA)	(NA)
	Sherman-Denison SMSA	-	123	57	10.5	120.1	7.8	15.5	76.9	307.0	500.3	792.7	33.2	8.3	179.2
20	Food and kindred products	-	20	11	2.0	24.1	1.6	3.2	17.6	93.3	309.1	399.4	(D)	1.3	36.5
207	Fats and oils	-	7	5	0.9	10.6	0.8	1.6	8.7	49.3	191.5	239.3	(D)	0.7	18.2
233	Women's and misses' outerwear	-	9	7	0.5	2.9	0.5	0.9	2.7	4.3	1.4	5.6	0.1	(NA)	(NA)
33	Primary metal industries	-	7	5	0.7	7.1	0.6	1.2	5.3	18.0	25.9	43.7	1.1	(NA)	(NA)
34	Fabricated metal products	-	14	6	0.4	4.1	0.2	0.4	2.1	13.0	10.4	17.6	(D)	(NA)	(NA)
35	Machinery, except electrical	-	15	5	0.6	7.3	0.4	0.9	4.0	18.7	23.4	40.2	(D)	0.8	10.3
	Texarkana, Tex.-Texarkana, Ark., SMSA	-	135	40	7.7	87.5	6.0	10.6	55.6	228.9	246.6	481.7	16.2	9.0	106.1
20	Food and kindred products	E3	13	6	0.6	6.1	0.3	0.7	2.7	14.9	31.3	46.0	1.4	0.6	11.7
24	Lumber and wood products	-	49	9	0.8	6.3	0.7	1.3	5.0	16.4	23.3	39.0	0.7	1.3	8.6
32	Stone, clay, and glass products	-	14	4	0.7	8.6	0.4	0.9	5.3	26.8	17.7	44.6	(D)	0.4	13.3
34	Fabricated metal products	-	14	3	2.0	22.7	1.5	2.0	9.8	44.2	20.9	70.8	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Tyler SMSA	-	**171**	**51**	**12.1**	**144.6**	**9.6**	**18.4**	**104.1**	**379.7**	**484.6**	**857.1**	**18.2**	**12.0**	**226.7**
20	Food and kindred products	-	17	9	0.7	8.3	0.5	0.7	3.5	23.7	38.6	62.2	1.2	0.6	11.7
25	Furniture and fixtures	-	7	3	0.4	3.0	0.3	0.6	2.1	9.3	4.6	13.4	(D)	0.4	3.9
27	Printing and publishing	-	18	2	0.3	2.4	0.1	0.2	1.0	5.2	2.2	7.4	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	14	4	0.3	2.7	0.2	0.5	2.0	8.3	6.3	14.7	0.2	(NA)	(NA)
34	Fabricated metal products	E2	21	6	0.5	6.1	0.4	0.8	4.2	9.0	17.5	26.3	0.4	0.6	8.7
344	Fabricated structural metal products	E3	12	4	0.4	4.7	0.3	0.6	3.4	6.4	14.1	20.4	0.2	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	E2	3	3	0.3	3.8	0.2	0.5	2.9	5.1	8.8	13.9	(D)	(NA)	(NA)
	Waco SMSA	-	**261**	**112**	**14.8**	**154.7**	**10.9**	**21.1**	**99.7**	**392.6**	**470.7**	**858.0**	**39.1**	**12.5**	**193.0**
20	Food and kindred products	-	29	17	2.2	20.6	1.5	3.1	11.7	55.4	114.1	165.0	24.0	1.5	17.3
201	Meat products	-	7	5	0.9	6.1	0.8	1.5	5.2	9.5	46.2	54.0	(D)	0.6	3.7
208	Beverages	-	7	5	0.3	3.0	0.1	0.4	0.7	8.9	10.1	18.9	1.5	0.3	3.5
23	Apparel and other textile products	-	21	14	1.8	9.8	1.5	2.6	6.7	16.7	30.0	47.1	0.3	1.9	14.9
232	Men's and boys' furnishings	-	6	5	1.0	5.7	0.8	1.6	3.5	8.5	27.6	36.5	0.2	1.4	11.1
233	Women's and misses' outerwear	-	7	5	0.6	2.6	0.4	0.7	2.1	5.7	0.7	6.4	0.1	(NA)	(NA)
24	Lumber and wood products	-	20	12	1.6	13.9	1.2	2.2	10.0	24.2	59.3	82.5	1.6	1.2	14.7
25	Furniture and fixtures	-	9	4	0.5	3.6	0.4	0.7	2.4	6.3	8.6	15.0	0.2	0.5	4.3
26	Paper and allied products	E2	9	7	0.6	6.2	0.5	1.0	4.2	13.0	22.5	35.7	(D)	0.5	10.1
27	Printing and publishing	-	41	7	0.9	9.2	0.4	0.7	3.3	22.4	14.9	36.7	0.7	0.7	10.0
32	Stone, clay, and glass products	-	17	9	1.5	21.3	1.3	2.6	17.5	57.2	42.4	99.9	2.0	1.5	33.9
34	Fabricated metal products	-	26	9	1.1	13.0	0.7	1.5	6.6	32.4	29.4	61.5	1.8	0.8	11.1
3441	Fabricated structural metal	-	5	4	0.6	7.0	0.4	0.8	3.4	12.6	17.7	30.2	(D)	0.6	7.2
35	Machinery, except electrical	-	26	8	0.7	7.9	0.5	1.0	5.0	15.4	20.7	37.2	1.4	0.5	6.8
36	Electric and electronic equipment	-	6	3	0.5	4.3	0.4	0.7	2.8	7.2	12.6	18.7	(D)	(NA)	(NA)
37	Transportation equipment	E1	9	6	0.5	7.1	0.4	0.7	3.8	12.6	13.6	27.4	(D)	0.5	8.9
	Wichita Falls SMSA	-	**177**	**54**	**7.9**	**84.5**	**6.3**	**11.9**	**57.2**	**213.2**	**205.6**	**416.6**	**38.8**	**5.0**	**68.0**
20	Food and kindred products	-	18	5	0.4	3.5	0.3	0.6	1.9	13.6	21.2	34.9	2.1	0.7	9.2
24	Lumber and wood products	-	9	4	0.5	4.1	0.4	0.8	2.9	8.0	18.4	26.5	0.2	(NA)	(NA)
245	Wood buildings and mobile homes	-	4	4	0.5	3.8	0.4	0.8	2.7	7.7	17.5	25.3	0.1	(NA)	(NA)
2451	Mobile homes	-	4	4	0.5	3.8	0.4	0.8	2.7	7.7	17.5	25.3	0.1	(NA)	(NA)
27	Printing and publishing	E1	15	3	0.3	3.3	0.2	0.3	1.7	8.1	2.9	10.9	(D)	0.3	4.6
30	Rubber and miscellaneous plastics products	-	4	3	0.3	3.7	0.3	0.6	3.0	9.7	10.6	19.6	(D)	(NA)	(NA)
34	Fabricated metal products	-	20	7	0.5	5.9	0.4	0.8	3.9	12.8	12.1	24.5	1.2	0.4	5.5
344	Fabricated structural metal products	-	10	5	0.4	4.4	0.3	0.6	2.6	7.4	8.6	16.7	1.1	0.3	4.4
35	Machinery, except electrical	-	41	15	1.5	17.9	1.1	2.2	11.0	40.8	41.9	83.4	2.4	0.9	12.7

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Anderson County	-	**39**	**17**	**1.8**	**19.2**	**1.5**	**2.9**	**13.5**	**33.7**	**108.8**	**140.3**	**(D)**	**1.4**	**20.9**
20	Food and kindred products	-	9	4	0.5	4.2	0.4	0.9	3.0	9.5	62.7	71.0	0.3	(NA)	(NA)
	Angelina County	-	**127**	**38**	**8.6**	**98.7**	**6.8**	**14.3**	**73.3**	**263.8**	**266.0**	**532.8**	**21.7**	**8.5**	**149.6**
20	Food and kindred products	-	6	4	0.6	5.2	0.5	1.0	3.5	11.8	30.9	42.6	2.3	0.7	7.5
	Austin County	-	**23**	**5**	**0.5**	**6.6**	**0.4**	**0.7**	**4.2**	**12.3**	**15.7**	**28.2**	**1.5**	**0.2**	**3.2**
	Bastrop County	-	**27**	**9**	**0.7**	**5.2**	**0.6**	**1.2**	**3.8**	**11.0**	**10.0**	**21.1**	**1.4**	**0.7**	**7.1**
	Bell County	-	**95**	**41**	**5.4**	**52.3**	**4.1**	**8.5**	**35.7**	**154.8**	**163.6**	**321.6**	**(D)**	**4.7**	**79.3**
25	Furniture and fixtures	-	8	7	1.3	9.8	1.0	2.0	6.7	18.8	22.5	41.1	1.0	1.3	13.1
	Bexar County	-	**858**	**259**	**34.2**	**349.3**	**23.7**	**45.6**	**194.7**	**799.2**	**964.6**	**1 745.6**	**78.6**	**30.9**	**448.2**
20	Food and kindred products	-	111	52	7.6	77.0	4.9	9.3	42.7	178.6	413.2	593.0	12.0	8.0	156.2
2026	Fluid milk	-	4	4	0.6	6.2	0.2	0.5	2.0	12.9	43.1	56.0	0.8	(NA)	(NA)
205	Bakery products	-	18	10	1.5	14.8	0.9	1.7	7.9	37.5	30.1	67.5	1.7	(NA)	(NA)
2099	Food preparations, n.e.c.	E1	29	12	1.0	8.3	0.7	1.3	5.6	27.5	25.5	52.9	(D)	(NA)	(NA)
2311	Men's and boys' suits and coats	-	6	5	1.5	9.9	1.3	2.4	7.0	21.9	6.1	27.6	(D)	(NA)	(NA)
27	Printing and publishing	E1	159	22	2.8	29.5	1.8	3.2	16.9	56.8	35.6	92.2	1.9	(NA)	(NA)
32	Stone, clay, and glass products	-	61	21	2.5	27.9	1.9	4.0	18.3	57.7	90.4	149.7	(D)	(NA)	(NA)
3241	Cement, hydraulic	-	3	3	0.7	9.4	0.5	1.0	6.1	25.5	37.3	64.6	9.4	(NA)	(NA)
3272	Concrete products, n.e.c.	E1	16	6	0.5	4.9	0.4	0.9	3.6	6.8	8.9	15.7	(D)	(NA)	(NA)
34	Fabricated metal products	E1	93	26	3.1	35.7	2.4	5.0	27.0	78.4	62.8	139.7	3.8	(NA)	(NA)
344	Fabricated structural metal products	E1	60	18	1.7	17.7	1.3	2.5	11.6	40.4	34.9	75.1	2.0	(NA)	(NA)
36	Electric and electronic equipment	E2	23	5	0.5	5.0	0.4	0.8	3.3	7.8	9.0	16.5	0.8	(NA)	(NA)
37	Transportation equipment	-	30	7	1.4	16.1	1.1	2.3	9.5	36.3	39.3	71.2	0.5	(NA)	(NA)
399	Miscellaneous manufactures	E1	36	12	0.5	4.9	0.4	0.8	2.6	8.4	7.8	16.0	(D)	(NA)	(NA)
--	Administrative and auxiliary	-	20	8	1.0	17.7	-	-	-	-	-	-	-	(NA)	(NA)
	Bowie County	-	**75**	**26**	**3.6**	**37.0**	**2.8**	**4.6**	**19.3**	**85.1**	**69.8**	**157.9**	**2.7**	**6.0**	**35.1**
24	Lumber and wood products	-	23	6	0.6	5.0	0.5	1.0	3.9	13.3	19.2	31.9	0.3	0.7	5.3
	Brazoria County	-	**145**	**53**	**13.1**	**253.8**	**7.0**	**14.1**	**118.5**	**1 313.4**	**2 656.4**	**3 979.0**	**507.0**	**10.4**	**582.0**
34	Fabricated metal products	-	23	12	0.7	9.0	0.6	1.2	6.9	15.4	15.3	30.7	1.0	(NA)	(NA)
	Brazos County (Coextensive with Bryan-College Station, Tex., SMSA; see table 6.)														
	Brown County	-	**47**	**16**	**2.0**	**24.3**	**1.5**	**3.3**	**16.4**	**110.8**	**108.9**	**216.0**	**6.4**	**1.9**	**57.7**
	Cameron County (Coextensive with Brownsville-Harlingen-San Benito, Tex., SMSA; see table 6.)														
	Cass County	-	**31**	**7**	**1.9**	**29.1**	**1.0**	**2.1**	**10.7**	**53.4**	**55.2**	**108.9**	**(D)**	**1.0**	**4.6**
	Cherokee County	-	**114**	**40**	**3.1**	**24.5**	**2.6**	**4.9**	**18.1**	**49.0**	**50.0**	**97.7**	**(D)**	**3.1**	**34.8**
23	Apparel and other textile products	E1	6	4	0.6	3.4	0.5	1.0	3.2	5.9	6.7	12.1	(D)	0.5	3.1
24	Lumber and wood products	E1	45	15	0.9	6.7	0.8	1.4	5.5	12.5	17.9	30.6	(D)	1.1	16.1
30	Rubber and miscellaneous plastics products	-	8	4	0.6	4.7	0.5	1.0	3.3	9.0	7.6	16.3	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	-	8	4	0.6	4.7	0.5	1.0	3.3	9.0	7.6	16.3	(D)	(NA)	(NA)
	Coleman County	-	**14**	**4**	**0.5**	**3.5**	**0.4**	**0.7**	**2.5**	**6.1**	**5.1**	**11.2**	**(D)**	**0.2**	**2.0**
	Collin County	-	**131**	**43**	**4.7**	**48.1**	**3.2**	**6.4**	**26.6**	**121.7**	**175.8**	**296.0**	**18.1**	**4.0**	**52.5**
20	Food and kindred products	-	12	5	0.6	6.0	0.3	0.5	2.2	22.8	54.7	77.0	(D)	(NA)	(NA)
23	Apparel and other textile products	-	5	3	0.5	3.4	0.5	1.0	2.8	4.7	1.6	6.2	(D)	0.7	5.6
34	Fabricated metal products	-	16	4	0.8	8.2	0.7	1.3	6.3	19.5	29.0	48.7	1.2	0.8	11.3
36	Electric and electronic equipment	-	11	6	0.5	5.4	0.4	0.7	2.8	10.1	6.5	16.6	(D)	0.7	9.5

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Colorado County	-	19	4	0.5	4.1	0.4	0.8	3.1	5.7	10.8	18.3	(D)	0.2	1.8
	Comal County	-	42	15	2.8	23.7	2.4	5.0	18.7	39.7	55.5	96.6	5.6	2.9	24.4
	Cooke County	-	56	20	2.7	29.8	2.3	4.3	20.4	79.5	67.5	144.8	(D)	2.2	31.7
	Dallas County	-	3 235	1 011	163.7	2 138.8	98.0	193.4	995.2	4 421.0	4 255.3	8 635.7	280.7	144.0	2 451.2
20	Food and kindred products	-	163	73	12.4	156.3	7.4	15.2	82.2	520.3	942.5	1 459.9	38.8	11.6	301.1
201	Meat products	E1	23	13	1.8	19.6	1.4	3.2	14.5	37.9	200.3	238.6	1.3	2.2	35.8
2011	Meat packing plants	E1	8	6	1.0	11.4	0.7	1.8	8.8	22.8	125.8	148.8	(D)	(NA)	(NA)
202	Dairy products	-	16	8	1.4	19.6	0.6	1.3	7.8	56.0	151.2	207.0	4.3	1.0	26.8
204	Grain mill products	-	16	5	0.6	7.4	0.4	0.8	4.4	22.1	47.1	69.0	0.8	0.7	14.6
208	Beverages	-	18	9	2.4	30.8	0.7	1.4	6.7	157.9	176.8	332.0	20.0	2.0	89.6
209	Miscellaneous foods and kindred products	-	40	19	2.4	28.0	1.8	3.6	18.4	81.6	116.4	197.7	2.8	2.1	53.6
2099	Food preparations, n.e.c.	-	34	14	2.0	24.4	1.5	3.0	16.2	76.3	86.1	162.6	(D)	(NA)	(NA)
23	Apparel and other textile products	E1	275	123	16.8	134.5	13.6	26.3	84.0	238.4	304.8	522.2	(D)	15.0	146.6
232	Men's and boys' furnishings	-	21	16	2.8	20.1	2.7	5.5	17.9	33.6	24.6	59.1	(D)	3.5	34.7
233	Women's and misses' outerwear	E1	142	64	8.7	73.5	6.5	11.7	39.5	175.9	170.6	343.6	(D)	7.6	73.9
2335	Women's and misses' dresses	-	88	29	3.6	33.9	2.5	4.5	14.9	68.9	77.7	144.1	2.3	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	E2	19	15	3.1	22.0	2.5	4.5	15.4	47.7	51.4	97.8	(D)	(NA)	(NA)
2431	Millwork	-	32	9	1.1	8.9	0.8	1.6	5.9	20.9	50.4	70.3	0.7	(NA)	(NA)
2434	Wood kitchen cabinets	E4	20	6	0.6	5.1	0.5	0.9	4.0	8.3	7.8	15.8	0.4	(NA)	(NA)
25	Furniture and fixtures	-	92	32	2.4	24.7	1.9	3.4	16.7	64.1	55.9	119.3	2.3	2.6	40.4
251	Household furniture	-	39	12	1.1	11.9	0.9	1.7	8.7	29.4	35.1	64.3	0.5	1.4	22.8
26	Paper and allied products	-	90	49	5.4	62.6	4.0	8.3	42.3	145.2	214.1	358.5	12.0	5.1	80.2
2641	Paper coating and glazing	-	18	4	0.5	5.5	0.3	0.7	3.4	11.8	18.9	30.8	(D)	(NA)	(NA)
2642	Envelopes	-	6	4	0.5	6.3	0.4	0.8	4.3	12.2	12.2	24.5	(D)	(NA)	(NA)
2643	Bags, except textile bags	-	9	6	0.7	9.2	0.6	1.1	6.6	17.3	35.8	53.2	1.3	(NA)	(NA)
265	Paperboard containers and boxes	-	33	24	2.5	29.1	1.9	3.8	19.5	64.6	108.8	172.7	6.4	2.1	35.7
2653	Corrugated and solid fiber boxes	-	25	18	1.8	22.4	1.3	2.7	14.7	47.8	86.4	133.5	3.0	(NA)	(NA)
27	Printing and publishing	E1	589	104	12.2	146.9	8.1	15.3	84.7	320.0	194.9	513.4	20.4	9.6	173.4
2711	Newspapers	-	38	6	2.5	32.6	1.1	1.8	12.3	90.1	44.5	134.5	(D)	(NA)	(NA)
273	Books	E1	31	9	1.6	16.6	1.3	2.3	10.5	36.6	18.3	55.0	1.7	(NA)	(NA)
2761	Manifold business forms	-	10	8	1.3	14.0	0.9	1.9	8.0	31.4	24.5	55.5	0.3	(NA)	(NA)
278	Blankbooks and bookbinding	-	17	7	0.6	6.6	0.5	1.0	5.1	13.7	4.1	17.7	(D)	(NA)	(NA)
2782	Blankbooks and looseleaf binders	-	6	5	0.5	5.5	0.4	0.8	4.2	11.8	3.8	15.4	(D)	(NA)	(NA)
28	Chemicals and allied products	-	171	52	5.2	66.8	3.0	5.7	32.7	348.4	350.5	692.8	15.0	4.0	176.7
284	Soaps, cleaners, and toilet goods	-	48	15	1.4	19.3	0.9	1.8	12.1	138.0	120.1	256.3	4.5	1.0	85.4
2841	Soap and other detergents	-	11	7	0.7	11.6	0.5	1.1	8.3	113.1	84.2	196.0	2.8	(NA)	(NA)
2851	Paints and allied products	-	22	12	1.6	20.1	0.7	1.5	8.9	91.2	119.8	209.2	(D)	(NA)	(NA)
289	Miscellaneous chemical products	E1	52	15	1.2	15.1	0.7	1.3	6.2	64.3	59.7	121.8	3.6	0.7	25.6
2899	Chemical preparations, n.e.c.	E1	32	6	0.8	9.5	0.4	0.8	3.6	41.8	37.0	76.9	3.0	(NA)	(NA)
29	Petroleum and coal products	-	15	7	0.6	8.5	0.5	1.1	5.9	33.3	59.2	92.6	1.8	0.6	14.3
30	Rubber and miscellaneous plastics products	-	102	36	3.3	34.7	2.6	5.1	22.3	73.8	92.8	164.6	4.3	2.3	42.4
3079	Miscellaneous plastics products	-	95	30	2.6	27.6	2.1	4.1	17.6	62.1	67.4	127.9	4.1	(NA)	(NA)
32	Stone, clay, and glass products	-	114	38	3.8	44.5	2.9	5.8	29.1	93.5	116.6	207.5	8.7	3.2	61.1
3272	Concrete products, n.e.c.	-	24	9	1.2	14.2	0.9	1.8	9.1	29.1	24.4	51.4	2.0	(NA)	(NA)
3273	Ready-mixed concrete	-	25	7	0.5	6.8	0.4	0.8	5.0	14.2	30.9	45.1	2.7	(NA)	(NA)
33	Primary metal industries	E1	50	18	1.7	19.9	1.4	2.6	13.6	54.4	79.8	131.8	5.4	1.5	26.6
332	Iron and steel foundries	E1	7	4	0.5	5.7	0.4	0.8	4.0	12.7	7.3	19.5	(D)	(NA)	(NA)
34	Fabricated metal products	-	342	115	11.1	122.5	8.3	16.7	77.8	274.0	303.4	574.8	12.7	9.6	135.1
342	Cutlery, hand tools, and hardware	-	16	7	0.9	9.3	0.7	1.3	5.6	21.8	21.8	42.9	1.6	(NA)	(NA)
344	Fabricated structural metal products	-	156	47	4.7	56.8	3.5	7.4	37.3	120.3	154.6	275.1	4.9	4.3	58.5
3442	Metal doors, sash, and trim	-	28	6	1.0	9.1	0.9	2.1	6.8	17.3	21.7	38.9	0.8	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	E1	17	8	0.9	12.8	0.7	1.4	8.6	28.9	20.1	48.8	2.0	(NA)	(NA)
3444	Sheet metal work	-	57	16	1.1	14.9	0.8	1.4	9.4	27.5	42.6	69.9	1.0	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Dallas County—Con.													
34	Fabricated metal products—Con.													
346	Metal forgings and stampings	E1	23	10	0.6	6.8	0.5	1.0	5.1	11.3	13.1	24.3	(D)	0.7	6.6
347	Metal services, n.e.c.	E1	60	12	0.9	9.2	0.8	1.5	6.3	16.5	10.6	27.0	0.6	0.6	7.2
3479	Metal coating and allied services	E1	21	5	0.5	4.8	0.4	0.8	3.3	8.9	7.4	16.2	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	59	23	1.6	14.1	1.2	2.4	9.1	41.6	41.7	82.0	2.9	1.1	17.4
35	Machinery, except electrical	–	404	104	20.1	285.2	12.2	23.8	145.6	725.1	456.7	1 166.9	41.1	14.5	277.7
353	Construction and related machinery	–	42	21	6.5	91.9	4.5	9.1	61.4	312.5	153.0	452.0	15.9	3.7	64.5
3533	Oil field machinery	–	17	11	5.4	77.4	3.8	7.7	53.7	284.8	126.2	397.6	(D)	(NA)	(NA)
354	Metalworking machinery	E1	45	10	0.7	10.0	0.5	1.1	6.3	19.4	10.3	29.2	1.5	0.5	10.2
355	Special industry machinery	–	36	12	1.8	25.3	1.1	2.0	11.0	51.3	36.8	88.1	4.0	1.4	24.4
3559	Special industry machinery, n.e.c.	–	14	5	1.0	14.5	0.6	1.1	6.0	30.0	18.7	48.9	(D)	(NA)	(NA)
356	General industrial machinery	–	39	11	1.3	18.2	1.0	1.8	12.1	50.1	34.8	84.3	2.3	(NA)	(NA)
3585	Refrigeration and heating equipment	E1	30	14	2.1	22.1	1.5	2.9	13.3	47.8	72.6	119.9	1.1	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	173	21	2.2	27.3	1.7	3.3	18.4	50.3	29.9	77.9	3.2	1.9	26.3
3599	Machinery, except electrical, n.e.c.	E1	173	21	2.2	27.3	1.7	3.3	18.4	50.3	29.9	77.9	3.2	(NA)	(NA)
36	Electric and electronic equipment	–	222	73	36.0	517.7	21.4	44.0	253.2	1 106.4	745.7	1 828.8	95.8	34.5	579.8
366	Communication equipment	–	64	23	19.7	311.6	9.7	19.7	119.1	705.6	466.7	1 161.1	(D)	15.8	254.9
367	Electronic components and accessories	–	67	19	13.0	166.1	9.0	18.8	105.0	298.3	151.9	441.8	(D)	(NA)	(NA)
3674	Semiconductors and related devices	–	14	7	11.7	152.3	8.0	17.0	96.8	258.8	133.8	384.4	(D)	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	–	18	9	1.4	18.9	1.2	2.3	14.7	47.7	59.3	104.6	3.1	(NA)	(NA)
3691	Storage batteries	–	7	5	1.1	16.2	0.9	1.9	12.9	41.4	54.6	93.5	2.9	(NA)	(NA)
3714	Motor vehicle parts and accessories	E1	31	11	1.1	11.3	0.9	1.8	7.5	21.1	31.9	51.6	1.0	(NA)	(NA)
38	Instruments and related products	E1	71	22	2.7	30.3	1.8	3.7	16.0	58.5	44.6	100.2	4.4	2.0	27.0
39	Miscellaneous manufacturing industries	E2	150	21	1.9	18.8	1.4	2.6	11.4	35.5	32.6	68.3	(D)	1.8	27.4
399	Miscellaneous manufactures	E2	88	15	1.2	12.4	0.9	1.6	7.6	22.4	15.4	37.9	0.8	1.2	19.8
--	Administrative and auxiliary	–	155	82	13.9	256.3	–	–	–	–	–	–	–	(NA)	(NA)
	Deaf Smith County	–	31	8	1.1	14.7	0.9	1.8	11.9	33.0	210.8	246.0	(D)	0.8	23.8
20	Food and kindred products	–	12	4	0.8	12.7	0.7	1.4	10.4	29.9	207.4	239.1	(D)	0.7	21.9
	Denton County	–	123	36	5.7	51.4	4.0	7.8	30.9	128.6	116.2	244.0	5.9	4.2	56.9
27	Printing and publishing	–	17	4	0.6	6.2	0.4	0.9	3.7	20.5	7.1	27.0	(D)	(NA)	(NA)
34	Fabricated metal products	–	13	6	0.8	6.7	0.6	1.2	4.1	16.8	30.5	47.6	0.5	(NA)	(NA)
344	Fabricated structural metal products	–	6	4	0.7	6.0	0.5	1.0	3.8	15.7	28.4	44.6	(D)	(NA)	(NA)
	De Witt County	–	19	8	0.9	7.4	0.7	1.3	4.4	17.3	28.2	42.9	2.3	0.7	9.4
	Eastland County	–	35	12	0.8	6.4	0.7	1.2	4.9	14.2	13.8	28.0	0.7	0.7	9.1
	Ector County (Coextensive with Odessa, Tex., SMSA; see table 6.)														
	Ellis County	–	93	41	5.7	62.8	4.8	9.3	46.2	183.0	199.1	384.9	10.8	4.0	84.6
23	Apparel and other textile products	–	10	8	0.8	4.9	0.8	1.3	4.5	7.2	6.6	13.8	(Z)	0.7	2.7
233	Women's and misses' outerwear	–	7	5	0.6	4.0	0.6	1.1	3.8	5.9	4.8	10.7	(D)	0.7	2.5
25	Furniture and fixtures	–	9	5	0.5	5.1	0.5	0.8	3.7	8.1	15.5	23.5	0.4	(NA)	(NA)
32	Stone, clay, and glass products	–	10	5	1.2	16.6	1.0	2.0	13.1	98.4	58.7	156.4	4.9	0.9	43.1
	El Paso County (Coextensive with El Paso, Tex., SMSA; see table 6.)														
	Erath County	–	29	5	0.9	6.8	0.7	1.2	4.5	20.8	18.9	37.9	(D)	0.3	3.0
	Falls County	–	14	6	0.6	3.9	0.5	0.8	2.8	8.2	19.3	28.3	0.2	0.4	5.3
	Fannin County	–	32	8	1.1	11.9	0.9	1.7	8.5	35.8	49.4	84.6	(D)	1.1	24.2

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Fayette County	-	34	7	0.5	4.5	0.4	0.9	3.1	13.1	12.0	24.7	0.9	0.4	7.0
	Fort Bend County	-	76	34	6.6	93.8	4.6	9.5	58.9	223.1	288.3	506.0	17.0	7.0	151.9
34	Fabricated metal products	-	18	10	2.6	38.1	2.3	4.6	29.1	77.0	90.8	170.5	6.7	1.0	18.2
	Galveston County (Coextensive with Galveston-Texas City, Tex., SMSA; see table 6.)														
	Gonzales County	-	26	8	0.8	5.5	0.7	1.3	4.1	17.7	54.0	70.9	3.6	0.8	10.2
20	Food and kindred products	E1	18	6	0.6	4.2	0.6	1.1	3.1	13.9	38.5	51.8	(D)	0.8	9.9
	Gray County	-	37	12	2.2	31.2	1.3	3.1	17.7	121.7	136.5	260.3	(D)	2.1	57.0
	Grayson County (Coextensive with Sherman-Denison, Tex., SMSA; see table 6.)														
	Gregg County	-	181	67	11.5	159.0	8.7	17.4	108.0	542.6	644.7	1 175.7	45.3	8.0	170.0
34	Fabricated metal products	-	24	15	1.8	27.2	1.5	2.9	21.9	53.0	108.7	161.3	(D)	1.3	25.8
35	Machinery, except electrical	-	46	15	2.5	34.8	1.9	3.9	24.1	70.9	81.8	146.8	6.8	2.6	44.4
	Grimes County	-	21	9	0.7	7.4	0.6	1.1	5.3	18.9	26.2	44.0	5.4	0.4	5.6
	Guadalupe County	-	44	12	3.1	26.1	2.6	5.1	18.4	66.4	110.7	175.5	8.3	1.1	9.4
	Hale County	-	54	13	1.9	19.2	1.5	3.0	15.0	46.7	261.6	306.7	5.6	1.3	30.1
	Harris County	-	3 707	1 214	187.2	2 975.6	112.6	229.1	1 516.1	8 220.1	15 136.8	23 152.8	1 917.6	143.5	3 405.3
201	Meat products	-	21	12	1.2	16.1	1.0	1.9	11.0	28.0	150.6	178.4	(D)	(NA)	(NA)
2013	Sausages and other prepared meats	-	12	7	0.6	8.6	0.4	0.8	5.4	15.7	63.4	78.9	0.7	(NA)	(NA)
202	Dairy products	-	7	6	0.9	10.2	0.4	0.7	3.5	30.6	71.1	101.7	(D)	1.2	18.9
2044	Rice milling	-	7	5	1.5	24.4	1.1	2.2	12.7	129.2	328.2	455.1	(D)	(NA)	(NA)
205	Bakery products	-	29	10	2.7	37.4	1.8	3.7	22.9	100.0	62.3	162.6	(D)	2.8	57.4
243	Millwork, plywood, and structural members	E2	34	10	0.7	8.1	0.5	1.0	4.3	11.6	27.5	38.7	0.7	(NA)	(NA)
254	Partitions and fixtures	E1	23	9	0.8	10.6	0.6	1.0	6.3	16.3	20.6	36.9	0.7	0.6	9.3
2643	Bags, except textile bags	-	6	3	0.5	5.3	0.4	0.9	4.2	10.9	17.3	28.1	1.5	(NA)	(NA)
265	Paperboard containers and boxes	-	19	13	1.1	14.4	0.8	1.8	9.5	25.8	54.4	80.0	2.6	1.2	19.0
2653	Corrugated and solid fiber boxes	-	13	10	1.0	12.1	0.7	1.5	7.8	21.1	45.6	66.6	2.4	(NA)	(NA)
2711	Newspapers	-	40	7	4.9	55.8	1.5	2.8	22.6	118.6	60.0	178.6	4.4	(NA)	(NA)
275	Commercial printing	E3	317	34	3.2	40.7	2.4	4.6	27.8	72.6	50.1	122.4	4.0	(NA)	(NA)
2751	Commercial printing, letterpress	E5	171	14	1.3	14.8	1.0	1.8	10.6	28.3	16.9	45.2	1.5	(NA)	(NA)
2752	Commercial printing, lithographic	E1	135	20	1.9	25.4	1.4	2.7	16.9	43.2	32.9	75.9	2.4	(NA)	(NA)
279	Printing trade services	E1	50	8	0.5	7.1	0.4	0.7	5.0	11.7	2.4	14.1	0.6	(NA)	(NA)
2821	Plastics materials and resins	-	15	13	2.4	46.2	1.6	3.4	27.7	301.9	514.8	805.1	(D)	(NA)	(NA)
3069	Fabricated rubber products, n.e.c.	-	18	9	0.9	11.7	0.7	1.3	7.6	22.0	12.1	34.0	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	E1	125	43	4.1	44.6	3.2	6.5	29.4	98.9	92.7	186.4	9.1	(NA)	(NA)
3241	Cement, hydraulic	-	4	4	0.5	9.7	0.4	0.8	7.6	38.3	47.5	86.2	(D)	(NA)	(NA)
327	Concrete, gypsum, and plaster products	-	78	39	3.1	40.4	2.4	5.2	30.0	109.0	173.4	282.2	10.2	2.9	51.9
3273	Ready-mixed concrete	-	32	20	2.0	28.1	1.6	3.5	21.2	68.7	140.5	209.3	8.4	(NA)	(NA)
331	Blast furnace and basic steel products	-	29	15	6.3	123.0	4.8	9.6	87.3	154.7	417.2	558.0	(D)	(NA)	(NA)
34	Fabricated metal products	E1	603	241	27.3	381.3	19.9	40.8	250.2	875.7	936.4	1 792.1	71.4	21.0	378.8
3411	Metal cans	E1	5	5	1.3	24.2	1.0	2.2	19.4	43.2	144.9	187.4	5.1	(NA)	(NA)
344	Fabricated structural metal products	E1	263	113	12.0	156.5	8.5	17.1	96.5	342.4	378.0	719.4	(D)	8.8	153.6
3441	Fabricated structural metal	-	61	32	3.1	39.5	2.3	5.0	26.4	71.1	83.0	154.2	5.1	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	-	56	34	4.3	61.7	3.0	6.0	38.8	149.6	114.3	262.2	8.1	(NA)	(NA)
3448	Prefabricated metal buildings	E1	23	13	2.0	25.7	1.4	2.6	14.7	61.5	88.6	150.4	2.1	(NA)	(NA)
346	Metal forgings and stampings	-	31	13	1.8	27.0	1.4	2.7	17.9	91.7	74.4	160.0	(D)	(NA)	(NA)
3498	Fabricated pipe and fittings	-	29	16	3.6	62.0	2.7	5.3	42.6	134.0	115.0	241.8	(D)	(NA)	(NA)
353	Construction and related machinery	-	150	86	26.0	397.3	17.1	35.3	241.6	1 019.3	635.6	1 689.8	117.3	17.0	372.7
3536	Hoists, cranes, and monorails	E2	10	4	0.5	7.1	0.4	0.8	4.7	15.3	13.1	28.0	0.3	(NA)	(NA)
355	Special industry machinery	-	32	8	1.1	17.4	0.6	1.4	8.7	35.2	24.2	57.0	(D)	(NA)	(NA)
3561	Pumps and pumping equipment	-	19	13	1.1	16.4	0.7	1.4	9.4	27.5	24.9	52.2	1.0	(NA)	(NA)
3564	Blowers and fans	-	11	7	0.5	6.2	0.3	0.5	3.0	9.1	11.5	21.4	0.6	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	444	78	5.3	76.1	4.1	8.6	52.8	139.2	66.2	201.8	8.8	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Harris County—Con.													
34	Fabricated metal products—Con.													
361	Electric distributing equipment	–	22	7	0.9	14.0	0.7	1.4	8.0	31.0	37.9	69.4	(D)	(NA)	(NA)
3662	Radio and TV communication equipment	–	23	11	2.3	32.0	1.5	2.8	15.6	76.5	55.8	124.8	4.3	(NA)	(NA)
371	Motor vehicles and equipment	E4	37	10	0.5	6.2	0.4	0.8	4.5	13.1	17.3	30.1	0.9	(NA)	(NA)
--	Administrative and auxiliary	–	160	92	22.0	510.8	–	–	–	–	–	–	–	(NA)	(NA)
	Harrison County	–	66	29	4.4	47.3	3.3	6.6	31.2	98.6	117.2	211.7	7.1	5.9	125.9
34	Fabricated metal products	–	10	4	1.5	17.0	1.0	2.0	9.9	33.5	10.1	41.5	(D)	1.7	23.8
	Hays County	–	24	7	0.9	9.5	0.6	1.2	5.1	21.3	18.8	39.9	(D)	0.5	8.1
	Henderson County	–	50	14	1.8	14.1	1.5	2.8	11.1	48.1	60.3	104.2	5.4	1.8	24.8
	Hidalgo County (Coextensive with McAllen-Pharr-Edinburg, Tex., SMSA; see table 6.)														
	Hill County	–	37	11	1.2	9.9	0.9	1.7	6.2	28.9	37.3	67.1	1.2	1.5	21.0
	Hopkins County	–	34	13	2.0	18.8	1.4	3.0	13.2	46.7	61.8	108.3	2.9	1.7	23.7
	Houston County	–	41	9	1.1	10.6	0.9	1.7	7.8	22.8	33.3	56.2	2.6	0.7	14.0
	Howard County	–	32	12	1.9	25.4	1.4	2.8	17.5	64.2	373.4	443.5	18.6	1.6	40.4
	Hunt County	–	61	24	6.1	69.6	4.9	9.9	52.7	136.2	96.7	230.3	7.5	4.0	55.8
20	Food and kindred products	–	8	4	0.5	3.9	0.4	0.9	3.3	11.5	11.5	23.0	0.6	(NA)	(NA)
23	Apparel and other textile products	–	9	7	1.2	8.5	1.0	1.9	6.6	12.8	5.0	17.4	(D)	1.2	9.0
	Jasper County	–	60	12	3.0	41.7	2.3	4.7	28.8	104.8	143.3	246.5	17.1	2.9	56.2
2411	Logging camps and logging contractors	E1	29	3	0.5	5.1	0.4	0.7	3.8	11.3	19.8	31.1	1.7	(NA)	(NA)
	Jefferson County	–	240	84	28.4	521.6	20.6	42.1	355.2	2 274.3	7 553.4	9 756.7	406.6	27.8	723.0
28	Chemicals and allied products	–	19	15	5.6	119.9	3.7	7.8	71.9	607.3	840.0	1 443.8	103.7	5.2	242.0
2822	Synthetic rubber	–	3	3	1.9	36.5	1.4	2.6	25.3	87.9	262.1	352.6	(D)	(NA)	(NA)
2911	Petroleum refining	–	11	10	13.6	274.9	10.6	22.0	205.3	1 421.9	6 414.2	7 762.3	283.3	(NA)	(NA)
341	Metal cans and shipping containers	–	4	3	0.5	7.8	0.4	0.7	5.6	14.8	28.6	44.8	(D)	0.6	12.6
349	Miscellaneous fabricated metal products	–	11	3	0.6	7.1	0.4	0.8	5.0	12.8	14.4	28.0	0.7	(NA)	(NA)
	Johnson County	–	101	31	3.7	34.4	2.9	5.3	23.7	88.5	125.6	209.4	4.7	3.5	44.5
24	Lumber and wood products	–	7	4	0.5	4.1	0.4	0.7	2.9	7.5	12.4	19.6	0.6	0.5	3.9
	Kaufman County	–	61	19	2.0	19.8	1.6	3.2	13.7	46.7	58.5	105.0	4.1	1.3	22.3
34	Fabricated metal products	–	8	7	1.0	10.7	0.8	1.8	7.8	20.6	23.7	45.0	1.8	(NA)	(NA)
344	Fabricated structural metal products	–	5	4	0.7	7.5	0.6	1.2	5.2	14.3	18.4	32.8	(D)	(NA)	(NA)
	Kerr County	–	25	4	0.9	8.5	0.6	1.2	4.6	21.3	12.6	32.9	1.6	0.2	2.4
	Lamar County	–	57	22	4.9	51.8	4.0	7.5	37.2	215.4	251.3	467.9	10.5	4.3	107.2
	Lamb County	–	18	3	0.8	7.4	0.8	1.5	6.2	9.2	24.6	33.1	(D)	0.1	1.4
	Lavaca County	–	38	12	1.6	12.4	1.0	1.9	6.5	26.6	36.1	60.1	0.6	0.6	4.8
	Liberty County	–	50	11	1.0	13.5	0.8	1.7	9.3	27.8	60.6	85.4	3.8	0.4	5.0
	Limestone County	–	18	11	0.9	6.2	0.7	1.4	4.8	10.1	16.4	26.8	0.3	0.6	5.9
	Lubbock County (Coextensive with Lubbock, Tex., SMSA; see table 6.)														
	McLennan County (Coextensive with Waco, Tex., SMSA; see table 6.)														
	Matagorda County	–	28	6	0.8	12.1	0.6	1.1	6.8	21.8	110.8	130.9	(D)	(D)	(D)
	Medina County	–	19	4	0.5	5.0	0.4	0.8	3.6	11.7	7.5	18.7	0.3	0.6	7.7
	Midland County (Coextensive with Midland, Tex., SMSA; see table 6.)														

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Montague County	–	**23**	**6**	**0.5**	**4.0**	**0.5**	**0.9**	**3.0**	**8.2**	**10.6**	**18.7**	**0.3**	**1.0**	**10.5**
	Montgomery County	–	**89**	**30**	**2.1**	**25.4**	**1.5**	**3.0**	**15.4**	**58.6**	**102.7**	**161.3**	**6.0**	**1.4**	**34.6**
	Nacogdoches County	–	**67**	**26**	**3.5**	**33.8**	**2.8**	**5.2**	**24.0**	**79.5**	**112.7**	**187.4**	**5.5**	**2.9**	**43.0**
20	Food and kindred products	–	7	5	0.8	8.0	0.6	1.1	4.5	9.6	45.2	54.3	1.9	0.7	9.1
24	Lumber and wood products	E1	34	8	0.7	6.9	0.6	1.4	5.6	17.4	19.8	36.8	1.2	0.7	6.7
	Navarro County	–	**38**	**21**	**2.3**	**23.7**	**1.8**	**3.6**	**16.6**	**59.4**	**79.6**	**134.9**	**5.7**	**2.1**	**37.6**
	Newton County	–	**38**	**3**	**0.6**	**7.2**	**0.6**	**1.1**	**5.4**	**26.3**	**23.1**	**49.3**	**1.3**	**0.4**	**5.3**
24	Lumber and wood products	E1	35	3	0.6	7.1	0.5	1.1	5.4	26.2	23.0	49.1	1.3	(NA)	(NA)
	Nolan County	–	**24**	**13**	**1.5**	**15.1**	**1.1**	**2.3**	**11.1**	**32.6**	**78.4**	**111.8**	**5.9**	**1.1**	**18.4**
32	Stone, clay, and glass products	–	5	3	0.5	7.4	0.4	0.8	5.5	17.4	26.3	44.9	(D)	0.5	11.8
	Orange County	–	**74**	**27**	**8.9**	**147.5**	**6.1**	**10.8**	**91.5**	**319.3**	**727.2**	**1 048.6**	**146.0**	**8.1**	**286.8**
28	Chemicals and allied products	–	8	7	4.2	91.8	2.6	5.4	53.2	210.3	591.8	802.6	118.1	(NA)	(NA)
	Palo Pinto County	–	**40**	**15**	**2.1**	**18.6**	**1.4**	**2.9**	**11.0**	**43.4**	**45.1**	**88.5**	**3.5**	**2.3**	**27.6**
	Panola County	–	**21**	**4**	**0.5**	**4.2**	**0.4**	**0.9**	**3.3**	**12.6**	**13.3**	**26.1**	**2.0**	**0.5**	**6.6**
	Parker County	–	**53**	**12**	**1.2**	**11.0**	**0.9**	**1.7**	**7.5**	**26.8**	**28.3**	**54.7**	**3.8**	**0.4**	**5.6**
35	Machinery, except electrical	–	9	3	0.5	4.3	0.4	0.6	2.8	8.4	7.2	15.4	0.5	(NA)	(NA)
	Polk County	–	**46**	**7**	**1.1**	**12.6**	**1.0**	**2.3**	**10.4**	**31.5**	**36.9**	**68.5**	**3.1**	**0.6**	**7.8**
24	Lumber and wood products	–	33	5	1.0	11.6	0.9	2.1	9.9	29.3	35.0	64.4	2.2	0.6	6.9
	Potter County	–	**180**	**51**	**7.1**	**86.9**	**5.1**	**10.5**	**56.3**	**458.4**	**1 495.3**	**1 952.2**	**9.9**	**4.9**	**63.5**
27	Printing and publishing	E2	30	6	0.5	5.5	0.3	0.5	2.6	14.3	6.9	21.2	(D)	(NA)	(NA)
	Randall County	–	**31**	**9**	**0.6**	**7.1**	**0.4**	**0.8**	**3.4**	**16.3**	**38.7**	**56.2**	**6.2**	**0.6**	**5.2**
	Red River County	–	**24**	**10**	**1.1**	**7.0**	**0.9**	**1.4**	**5.4**	**14.1**	**20.4**	**34.4**	**0.9**	**0.8**	**8.9**
	Rockwall County	–	**17**	**4**	**0.5**	**5.9**	**0.4**	**0.8**	**3.7**	**9.7**	**20.3**	**30.4**	**0.4**	**(D)**	**(D)**
	Runnels County	–	**13**	**5**	**0.6**	**4.7**	**0.5**	**1.0**	**3.0**	**11.5**	**12.1**	**23.1**	**0.7**	**0.6**	**7.0**
	Rusk County	–	**53**	**17**	**1.8**	**17.3**	**1.4**	**2.9**	**12.1**	**36.0**	**38.2**	**73.8**	**3.4**	**1.3**	**13.5**
	Shelby County	–	**53**	**10**	**2.5**	**18.9**	**2.1**	**4.6**	**14.3**	**41.8**	**78.2**	**118.6**	**5.5**	**1.0**	**14.9**
242	Sawmills and planing mills	–	10	7	1.5	11.4	1.2	2.8	8.5	25.9	20.1	44.8	2.4	(NA)	(NA)
	Smith County (Coextensive with Tyler, Tex., SMSA; see table 6.)														
	Stephens County	–	**18**	**8**	**0.6**	**5.7**	**0.5**	**1.0**	**3.5**	**9.7**	**11.0**	**22.2**	**1.0**	**0.8**	**9.3**
	Tarrant County	–	**1 649**	**545**	**82.0**	**1 131.0**	**55.3**	**110.9**	**663.3**	**2 831.9**	**3 470.7**	**6 134.9**	**170.4**	**67.3**	**1 342.0**
20	Food and kindred products	–	93	51	6.4	86.8	4.4	8.9	57.1	319.2	636.7	957.9	21.3	5.5	123.5
201	Meat products	–	15	7	0.5	6.5	0.4	0.9	5.2	13.9	87.3	100.6	(D)	(NA)	(NA)
204	Grain mill products	–	12	8	0.8	8.3	0.5	1.1	5.2	26.9	111.7	138.5	1.8	0.5	17.4
208	Beverages	–	10	10	2.2	39.6	1.4	2.9	26.8	173.7	229.7	402.4	11.3	(NA)	(NA)
23	Apparel and other textile products	E2	60	22	1.9	12.9	1.6	2.7	8.7	26.4	32.9	59.3	0.4	1.5	17.8
233	Women's and misses' outerwear	E1	12	3	0.5	3.3	0.4	0.7	2.3	6.2	8.4	14.5	(D)	(NA)	(NA)
24	Lumber and wood products	–	82	24	2.5	21.9	2.2	4.0	16.0	42.5	79.7	121.2	(D)	2.5	29.9
243	Millwork, plywood, and structural members	E1	41	10	0.6	5.4	0.5	1.0	3.9	10.8	14.0	24.7	0.3	0.5	6.1
245	Wood buildings and mobile homes	–	12	9	1.5	14.0	1.3	2.4	10.2	27.4	60.0	86.8	(D)	1.8	21.7
25	Furniture and fixtures	E1	70	25	2.4	18.7	2.1	3.8	13.9	33.7	31.1	64.2	1.7	2.0	23.9
251	Household furniture	–	44	21	2.2	16.3	1.8	3.4	12.2	30.0	27.6	57.1	1.6	1.8	20.9
2511	Wood household furniture	E1	24	9	1.5	11.3	1.3	2.5	8.7	19.2	15.6	34.7	(D)	(NA)	(NA)
27	Printing and publishing	–	219	44	4.1	44.2	2.6	5.0	26.5	102.2	62.9	164.2	3.4	3.9	64.9
275	Commercial printing	–	128	24	1.8	19.2	1.4	2.6	14.3	38.0	28.8	66.5	(D)	(NA)	(NA)
28	Chemicals and allied products	–	64	21	2.4	32.6	1.0	2.0	10.9	106.3	77.5	180.8	(D)	(NA)	(NA)
29	Petroleum and coal products	–	9	4	1.0	14.6	0.3	0.6	3.6	39.7	90.1	127.7	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	–	92	41	4.8	51.8	3.6	7.2	30.6	100.2	111.3	207.5	9.9	(NA)	(NA)
3079	Miscellaneous plastics products	E1	80	34	3.3	30.7	2.7	5.3	20.5	69.7	74.2	142.6	8.3	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Tarrant County—Con.														
31	Leather and leather products	E7	19	7	1.0	7.4	0.8	1.4	4.5	17.3	17.8	35.4	(D)	0.8	11.5
3273	Ready-mixed concrete	-	17	9	0.5	7.2	0.4	0.9	5.1	16.9	34.4	51.4	1.6	(NA)	(NA)
33	Primary metal industries	-	35	12	2.6	30.9	2.2	4.6	24.2	55.9	43.9	98.9	3.5	0.7	9.3
34	Fabricated metal products	-	187	69	5.2	62.9	4.1	8.5	42.9	151.8	212.8	364.6	10.1	6.5	84.4
344	Fabricated structural metal products	-	85	30	2.5	27.2	1.8	4.0	16.8	50.3	70.4	122.3	3.2	3.0	34.8
3441	Fabricated structural metal	-	18	11	1.1	11.9	0.8	1.9	7.6	20.9	33.9	57.1	1.5	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	E1	18	8	0.6	6.3	0.5	1.0	4.7	10.2	15.4	25.2	0.7	(NA)	(NA)
346	Metal forgings and stampings	-	16	8	0.6	7.2	0.5	1.0	4.8	18.2	17.4	35.8	1.6	(NA)	(NA)
349	Miscellaneous fabricated metal products	E1	35	10	0.7	7.1	0.6	1.1	5.0	16.3	19.7	35.5	1.7	0.6	7.2
35	Machinery, except electrical	-	293	84	10.8	136.8	8.0	15.7	86.6	335.4	359.5	689.7	18.2	6.1	134.5
353	Construction and related machinery	-	39	23	3.2	45.6	2.4	5.1	29.5	91.8	80.2	173.1	8.0	(NA)	(NA)
3533	Oil field machinery	-	8	5	1.7	28.2	1.3	2.9	18.6	57.7	44.5	101.6	(D)	(NA)	(NA)
3535	Conveyors and conveying equipment	-	11	7	0.8	8.9	0.6	1.2	5.4	17.1	16.7	35.3	(D)	(NA)	(NA)
358	Refrigeration and service machinery	-	36	18	3.9	44.1	2.8	4.8	25.8	136.0	196.7	327.0	4.1	1.7	50.8
3585	Refrigeration and heating equipment	-	23	12	3.5	38.9	2.5	4.2	23.0	127.1	186.2	308.1	3.8	(NA)	(NA)
36	Electric and electronic equipment	-	61	18	3.3	33.5	2.3	4.1	17.5	122.3	60.8	178.5	15.6	1.1	20.7
366	Communication equipment	-	17	10	2.1	23.3	1.5	2.9	12.3	96.2	47.7	141.4	(D)	(NA)	(NA)
37	Transportation equipment	-	104	40	25.6	475.8	15.4	33.0	275.5	1 202.6	1 443.0	2 499.9	31.4	25.7	619.7
3728	Aircraft equipment, n.e.c.	E1	13	7	0.8	12.7	0.6	1.0	8.4	24.0	13.6	37.1	(D)	(NA)	(NA)
3792	Travel trailers and campers	-	19	6	0.6	5.1	0.5	0.8	3.4	12.2	22.1	34.2	(D)	(NA)	(NA)
382	Measuring and controlling devices	-	10	4	0.5	5.9	0.3	0.7	2.7	15.8	5.3	20.5	0.4	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	69	14	2.1	21.4	1.5	2.6	11.7	51.4	38.5	88.9	1.5	(NA)	(NA)
394	Toys and sporting goods	-	13	4	1.0	9.9	0.8	1.3	6.0	29.0	23.2	51.3	0.9	(NA)	(NA)
399	Miscellaneous manufactures	-	40	7	0.8	9.3	0.5	0.9	4.5	18.6	11.2	29.9	(D)	(NA)	(NA)
--	Administrative and auxiliary	-	37	17	1.5	25.4	-	-	-	-	-	-	-	(NA)	(NA)
	Taylor County	-	124	39	5.5	48.5	4.0	7.8	31.3	102.1	498.0	603.3	7.7	5.0	57.8
23	Apparel and other textile products	-	6	3	0.9	5.0	0.8	1.3	4.1	5.8	2.7	8.3	(D)	(NA)	(NA)
	Titus County	-	37	12	1.2	10.6	1.0	1.9	7.6	35.4	150.8	186.0	1.3	1.1	21.5
	Tom Green County (Coextensive with San Angelo., Tex., SMSA; see table 6.)														
	Travis County	-	426	107	17.8	230.9	9.3	17.5	84.5	505.7	422.9	898.7	(D)	12.2	229.8
20	Food and kindred products	E1	38	16	1.4	14.2	0.7	1.3	5.6	34.1	51.7	85.6	3.0	(NA)	(NA)
25	Furniture and fixtures	-	18	3	1.3	9.8	1.1	2.1	6.5	15.4	16.9	31.6	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	24	6	0.5	6.3	0.4	1.0	4.7	18.9	15.8	34.7	1.8	(NA)	(NA)
327	Concrete, gypsum, and plaster products	-	16	5	0.5	5.7	0.4	0.9	4.1	17.4	15.0	32.5	(D)	(NA)	(NA)
34	Fabricated metal products	E3	29	9	0.5	5.5	0.4	0.8	3.6	9.6	17.9	27.4	1.6	0.5	4.9
38	Instruments and related products	E1	21	8	0.7	7.9	0.4	0.7	3.4	18.8	9.8	27.5	2.0	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	23	4	0.5	5.3	0.3	0.7	2.4	14.0	6.7	20.8	(D)	0.6	5.1
	Tyler County	-	49	8	0.7	6.0	0.7	1.3	5.0	14.1	19.0	32.3	1.0	0.7	9.3
	Val Verde County	-	16	4	0.7	5.0	0.5	1.0	3.5	15.7	22.6	38.6	(D)	(D)	(D)
	Van Zandt County	-	26	8	0.9	7.2	0.7	1.3	5.2	16.2	13.5	29.9	0.8	0.7	7.2
	Victoria County	-	43	13	2.7	44.1	1.8	3.9	24.9	181.0	328.8	512.3	43.3	2.8	103.3
	Walker County	-	42	13	1.5	13.7	1.3	2.5	10.5	49.5	60.5	109.8	1.6	0.7	12.9
24	Lumber and wood products	-	20	5	1.2	10.6	1.0	2.0	8.5	39.6	52.2	91.8	0.9	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Washington County	-	30	15	1.3	12.6	1.1	2.3	9.0	32.0	33.7	65.7	2.8	1.2	18.6
	Webb County (Coextensive with Laredo, Tex., SMSA; see table 6.)														
	Wharton County	-	39	8	0.9	8.2	0.7	1.3	5.6	13.5	33.8	46.6	1.7	0.7	10.4
	Wichita County	-	168	52	7.7	82.8	6.1	11.6	56.2	209.0	194.7	401.4	(D)	(D)	(D)
35	Machinery, except electrical	-	41	15	1.5	17.9	1.1	2.2	11.0	40.8	41.9	83.4	2.4	(NA)	(NA)
	Wilbarger County	-	15	4	0.5	4.5	0.4	0.8	3.2	18.1	31.8	50.0	(D)	0.7	13.0
	Williamson County	-	77	21	2.0	18.5	1.5	2.9	10.5	26.6	37.9	63.0	(D)	1.3	12.1
	Wise County	-	31	6	0.5	4.6	0.4	0.8	3.0	10.1	8.5	18.5	1.5	0.5	6.1
	Wood County	-	33	7	0.7	5.2	0.6	1.4	4.2	18.2	25.8	44.0	1.1	0.6	7.5
	Young County	-	30	9	1.5	15.7	1.2	2.4	10.4	44.7	42.8	85.9	2.2	0.9	19.7

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Abilene	-	115	38	4.9	44.5	3.3	6.8	28.0	97.9	497.4	598.5	7.7	4.9	57.7
20	Food and kindred products	-	21	11	1.3	12.8	0.9	1.9	7.5	39.0	129.4	165.5	3.8	(NA)	(NA)
34	Fabricated metal products	-	6	4	0.5	3.9	0.4	0.7	2.7	13.1	25.8	37.2	0.6	(NA)	(NA)
	Arlington	-	256	78	10.8	177.9	8.0	17.7	125.4	497.2	1 096.7	1 590.8	22.5	9.3	283.4
27	Printing and publishing	-	42	8	0.6	6.7	0.4	0.8	4.0	17.1	12.1	28.8	0.5	0.7	11.2
30	Rubber and miscellaneous plastics products	-	18	8	1.3	17.5	0.9	1.8	8.2	30.8	35.0	64.5	3.1	0.6	13.3
34	Fabricated metal products	E1	21	6	0.5	6.1	0.4	0.7	4.5	17.2	21.3	38.8	1.4	0.6	11.4
35	Machinery, except electrical	E2	59	14	1.0	11.8	0.8	1.5	8.4	23.6	16.9	39.8	1.1	0.7	14.5
379	Miscellaneous transportation equipment	-	5	4	0.5	4.0	0.3	0.6	2.4	8.2	18.5	26.6	0.1	(NA)	(NA)
	Athens	-	32	10	1.5	11.0	1.2	2.2	8.7	40.5	53.5	89.7	(D)	1.7	22.9
	Austin	-	371	92	11.5	125.0	6.9	13.0	61.0	278.2	200.5	474.3	20.8	7.7	93.8
20	Food and kindred products	E1	38	16	1.4	14.2	0.7	1.3	5.6	34.1	51.7	85.6	3.0	1.1	13.0
27	Printing and publishing	E1	117	19	1.9	21.9	0.9	1.7	9.0	49.8	24.0	73.7	2.3	1.8	28.1
275	Commercial printing	E1	62	10	0.8	8.4	0.5	0.9	4.8	15.0	9.5	24.4	1.3	(NA)	(NA)
2752	Commercial printing, lithographic	-	25	8	0.6	6.8	0.4	0.7	3.7	12.3	7.6	19.7	1.1	(NA)	(NA)
34	Fabricated metal products	E2	25	9	0.5	5.1	0.4	0.7	3.3	8.7	17.1	25.8	1.5	0.5	4.6
35	Machinery, except electrical	-	24	6	1.5	18.5	1.3	2.4	14.6	31.7	12.6	44.2	0.5	(NA)	(NA)
36	Electric and electronic equipment	-	21	8	2.4	28.7	1.0	2.0	9.7	88.3	26.7	112.7	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Belton	-	**10**	**5**	**0.7**	**6.9**	**0.6**	**1.1**	**4.8**	**20.5**	**14.8**	**35.2**	**1.0**	**0.6**	**10.5**
	Bonham	-	**14**	**5**	**0.8**	**9.8**	**0.7**	**1.3**	**7.0**	**30.8**	**40.0**	**70.1**	**(D)**	**0.9**	**21.5**
	Breckenridge	-	**18**	**8**	**0.6**	**5.7**	**0.5**	**1.0**	**3.5**	**9.7**	**11.0**	**22.2**	**1.0**	**(D)**	**(D)**
	Brownsville	-	**56**	**21**	**3.4**	**24.1**	**2.7**	**5.3**	**16.3**	**66.0**	**91.0**	**155.9**	**3.8**	**4.2**	**68.5**
36	Electric and electronic equipment	-	7	5	0.6	4.6	0.5	1.0	3.2	15.0	20.8	34.9	0.6	0.5	10.3
	Brownwood	-	**38**	**15**	**2.0**	**24.0**	**1.5**	**3.2**	**16.2**	**109.9**	**108.2**	**214.4**	**6.4**	**1.7**	**55.9**
	Bryan	-	**53**	**21**	**2.1**	**21.4**	**1.6**	**3.2**	**15.0**	**52.5**	**65.3**	**117.4**	**(D)**	**1.8**	**25.0**
	Carrollton	-	**70**	**33**	**7.3**	**93.5**	**4.5**	**9.1**	**40.4**	**263.8**	**193.6**	**452.2**	**5.2**	**3.8**	**75.1**
34	Fabricated metal products	-	13	6	1.3	13.7	0.9	2.1	7.1	27.3	26.5	54.5	0.6	(NA)	(NA)
	Cedar Hill	-	**11**	**3**	**0.5**	**3.8**	**0.4**	**0.8**	**2.8**	**5.0**	**5.1**	**9.9**	**0.3**	**(NA)**	**(NA)**
	Center	-	**30**	**6**	**2.2**	**16.7**	**2.0**	**4.3**	**12.9**	**37.1**	**54.6**	**90.3**	**5.0**	**0.8**	**12.8**
242	Sawmills and planing mills	-	7	4	1.3	10.3	1.1	2.6	7.8	23.5	17.3	39.7	(D)	(NA)	(NA)
	Clarksville	-	**14**	**9**	**0.9**	**6.2**	**0.8**	**1.3**	**4.8**	**11.2**	**19.1**	**30.1**	**0.9**	**0.5**	**7.4**
	Cleburne	-	**41**	**18**	**2.5**	**21.7**	**1.9**	**3.6**	**15.2**	**62.2**	**90.4**	**148.5**	**3.1**	**2.4**	**33.4**
	Commerce	-	**11**	**4**	**0.5**	**4.7**	**0.5**	**0.9**	**3.5**	**7.7**	**9.7**	**17.3**	**1.0**	**(NA)**	**(NA)**
	Conroe	-	**55**	**18**	**1.4**	**17.4**	**0.9**	**2.0**	**9.7**	**35.4**	**63.7**	**99.5**	**3.1**	**0.7**	**14.2**
	Corpus Christi	-	**197**	**58**	**6.9**	**88.7**	**4.5**	**8.8**	**50.6**	**271.3**	**1 057.6**	**1 333.1**	**(D)**	**6.6**	**147.3**
20	Food and kindred products	-	24	14	1.8	19.5	1.0	1.9	9.2	41.9	117.4	158.8	2.5	1.6	25.9
201	Meat products	-	4	4	0.6	6.7	0.5	0.8	4.7	14.3	80.0	94.0	0.7	(NA)	(NA)
205	Bakery products	-	3	3	0.5	5.4	0.2	0.5	2.5	11.6	10.6	22.1	0.5	(NA)	(NA)
2051	Bread, cake, and related products	-	3	3	0.5	5.4	0.2	0.5	2.5	11.6	10.6	22.1	0.5	(NA)	(NA)
27	Printing and publishing	E1	35	5	0.7	6.9	0.3	0.5	2.4	17.4	6.3	23.7	0.9	0.6	9.6
	Corsicana	-	**32**	**17**	**1.7**	**17.0**	**1.3**	**2.8**	**12.1**	**43.5**	**48.4**	**89.1**	**3.7**	**1.7**	**27.3**
	Dallas	-	**2 154**	**693**	**112.7**	**1 458.8**	**67.1**	**133.2**	**673.2**	**2 726.9**	**2 768.4**	**5 484.5**	**191.3**	**107.2**	**1 793.2**
20	Food and kindred products	-	137	61	10.0	123.8	5.6	11.5	58.2	394.5	740.1	1 132.2	30.1	9.3	253.4
201	Meat products	E1	21	12	1.8	19.1	1.4	3.1	14.1	37.2	198.0	235.7	1.2	(NA)	(NA)
2011	Meat packing plants	E1	8	6	1.0	11.4	0.7	1.8	8.8	22.8	125.8	148.8	0.4	(NA)	(NA)
202	Dairy products	-	14	6	1.3	16.3	0.4	1.0	5.0	45.4	110.0	155.3	3.5	(NA)	(NA)
2026	Fluid milk	-	6	6	1.2	15.9	0.4	0.9	4.9	44.7	108.3	153.0	3.4	(NA)	(NA)
205	Bakery products	-	18	7	2.0	26.9	1.0	1.9	12.0	58.6	51.8	110.5	2.9	(NA)	(NA)
208	Beverages	-	15	7	2.0	27.1	0.5	1.1	5.1	151.1	160.6	309.3	(D)	(NA)	(NA)
209	Miscellaneous foods and kindred products	-	37	18	1.8	20.8	1.3	2.6	12.2	49.2	94.3	143.2	1.9	(NA)	(NA)
2099	Food preparations, n.e.c.	E1	31	13	1.4	17.2	1.0	2.0	10.0	43.9	64.0	108.1	(D)	(NA)	(NA)
23	Apparel and other textile products	E1	206	109	15.1	121.1	12.3	24.1	75.6	206.3	281.5	468.8	6.7	13.4	126.1
2311	Men's and boys' suits and coats	-	6	4	1.2	9.9	0.9	2.6	5.8	-20.8	46.8	9.1	(D)	(NA)	(NA)
232	Men's and boys' furnishings	-	19	14	2.7	19.4	2.6	5.3	17.2	32.4	23.8	57.1	0.3	(NA)	(NA)
233	Women's and misses' outerwear	E1	106	57	8.0	68.3	6.0	11.0	36.1	158.7	160.4	316.6	5.4	(NA)	(NA)
2331	Women's and misses' blouses and waists	E5	13	6	0.7	5.3	0.6	0.9	2.9	11.5	15.7	27.8	0.4	(NA)	(NA)
2335	Women's and misses' dresses	-	62	27	3.4	32.6	2.3	4.2	13.9	65.6	75.7	138.7	2.3	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	E3	14	12	2.7	19.2	2.2	4.2	13.6	37.4	44.4	80.9	2.5	(NA)	(NA)
239	Miscellaneous fabricated textile products	-	53	25	2.7	19.5	2.3	4.4	13.6	29.8	40.1	69.5	0.9	(NA)	(NA)
24	Lumber and wood products	-	50	12	1.2	9.9	1.0	2.0	7.4	24.5	53.7	77.2	1.0	1.1	15.3
243	Millwork, plywood, and structural members	-	24	7	0.9	7.4	0.8	1.6	5.8	19.5	45.9	64.4	0.7	(NA)	(NA)
25	Furniture and fixtures	-	66	25	2.0	21.4	1.6	2.9	14.6	56.5	46.5	102.5	1.6	2.0	33.3
251	Household furniture	-	29	10	1.0	10.8	0.8	1.6	8.0	26.3	29.2	55.4	0.3	(NA)	(NA)
254	Partitions and fixtures	-	22	7	0.5	5.9	0.4	0.8	3.7	19.0	6.2	25.0	(D)	(NA)	(NA)
26	Paper and allied products	-	64	34	3.9	44.5	2.9	6.1	30.2	99.3	138.0	237.3	10.3	3.7	55.6
264	Miscellaneous converted paper products	-	39	19	2.2	25.0	1.6	3.2	16.7	51.3	75.7	127.3	4.6	(NA)	(NA)
2641	Paper coating and glazing	-	12	4	0.5	4.8	0.3	0.6	3.0	10.8	16.1	27.1	(D)	(NA)	(NA)
2643	Bags, except textile bags	-	7	5	0.7	8.6	0.5	1.1	6.2	14.9	32.6	47.6	(D)	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	15	8	0.8	9.7	0.6	1.2	6.3	19.3	32.7	51.8	2.2	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Dallas—Con.														
27	Printing and publishing	E1	450	87	10.9	131.6	7.1	13.5	74.7	290.8	163.4	452.9	15.8	8.7	159.6
2711	Newspapers	–	25	6	2.5	31.9	1.1	1.8	12.0	88.9	43.8	132.7	(D)	(NA)	(NA)
273	Books	E1	22	7	1.5	15.1	1.1	2.1	9.6	34.0	16.6	50.5	1.3	(NA)	(NA)
2732	Book printing	–	8	5	1.3	13.4	1.1	2.1	9.4	28.0	14.5	42.4	1.0	(NA)	(NA)
2741	Miscellaneous publishing	–	14	3	0.6	5.1	0.1	0.2	0.7	10.0	2.5	12.5	0.1	(NA)	(NA)
275	Commercial printing	E2	303	46	3.7	48.3	2.8	5.7	32.3	93.6	70.8	163.6	5.5	(NA)	(NA)
2751	Commercial printing, letterpress	E4	149	7	0.8	9.1	0.7	1.2	6.0	19.6	13.0	32.4	1.4	(NA)	(NA)
2752	Commercial printing, lithographic	E1	137	33	2.6	36.4	1.9	4.1	24.4	67.6	55.1	122.3	4.1	(NA)	(NA)
2761	Manifold business forms	–	7	6	1.1	11.8	0.7	1.6	6.3	28.5	14.7	42.9	0.2	(NA)	(NA)
278	Blankbooks and bookbinding	–	13	6	0.6	6.2	0.5	1.0	4.9	13.0	4.0	16.8	(D)	(NA)	(NA)
2782	Blankbooks and looseleaf binders	–	5	4	0.5	5.2	0.4	0.8	4.1	11.2	3.6	14.7	(D)	(NA)	(NA)
279	Printing trade services	–	36	10	0.8	11.3	0.6	1.2	8.5	17.6	7.6	25.2	1.9	(NA)	(NA)
28	Chemicals and allied products	–	120	31	3.4	42.9	1.9	3.4	19.5	179.7	199.6	376.0	8.9	2.5	99.4
284	Soaps, cleaners, and toilet goods	–	33	10	1.0	13.2	0.6	1.2	7.9	72.7	87.1	158.5	2.8	(NA)	(NA)
2851	Paints and allied products	–	14	6	0.8	10.2	0.3	0.6	3.5	25.0	41.7	66.3	1.0	(NA)	(NA)
289	Miscellaneous chemical products	E1	37	8	0.8	9.0	0.4	0.7	3.2	36.8	28.3	63.9	1.8	(NA)	(NA)
2899	Chemical preparations, n.e.c.	E1	22	3	0.5	6.1	0.2	0.4	1.8	20.7	13.1	32.9	1.3	(NA)	(NA)
29	Petroleum and coal products	–	11	5	0.5	7.4	0.4	1.0	5.3	28.3	38.5	66.9	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	–	55	17	1.8	19.9	1.5	2.9	13.0	43.7	61.9	104.5	2.2	1.7	30.4
3079	Miscellaneous plastics products	–	49	12	1.2	13.0	1.0	2.0	8.5	32.3	36.7	68.2	2.0	(NA)	(NA)
32	Stone, clay, and glass products	–	73	25	2.5	30.1	1.9	3.9	20.2	64.7	84.5	147.8	5.1	2.1	36.1
3272	Concrete products, n.e.c.	–	15	6	0.6	7.5	0.5	0.9	5.1	13.9	12.7	25.7	(D)	(NA)	(NA)
33	Primary metal industries	–	27	10	1.3	15.2	1.0	2.0	10.2	45.8	59.3	102.7	4.4	1.1	20.7
34	Fabricated metal products	–	210	69	6.5	73.2	4.8	9.8	48.2	165.9	198.3	362.3	7.7	5.5	82.5
3441	Fabricated structural metal	–	13	7	0.7	8.3	0.5	1.1	5.7	24.7	25.8	50.7	0.5	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	–	9	4	0.8	10.4	0.5	1.2	7.1	23.9	15.5	39.2	(D)	(NA)	(NA)
3444	Sheet metal work	–	35	10	0.6	9.8	0.5	0.9	6.8	18.4	33.8	51.9	0.6	(NA)	(NA)
347	Metal services, n.e.c.	E1	39	9	0.7	7.4	0.6	1.2	5.1	13.2	8.7	21.8	0.5	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	30	15	1.1	9.0	0.8	1.5	5.9	28.4	32.9	60.3	(D)	(NA)	(NA)
35	Machinery, except electrical	–	229	60	9.6	125.4	6.1	12.0	66.2	292.5	197.5	477.2	26.6	7.6	133.6
353	Construction and related machinery	–	23	12	3.6	46.6	2.4	5.1	28.9	127.2	75.5	192.7	8.7	(NA)	(NA)
3533	Oil field machinery	–	11	6	2.7	35.8	1.9	4.0	23.2	107.3	57.0	154.2	(D)	(NA)	(NA)
354	Metalworking machinery	–	25	7	0.5	7.4	0.4	0.8	4.5	14.8	8.4	22.9	0.8	(NA)	(NA)
355	Special industry machinery	–	27	8	1.4	20.3	0.9	1.6	8.8	43.3	27.6	70.4	3.7	(NA)	(NA)
3573	Electronic computing equipment	–	11	5	1.2	16.5	0.3	0.5	2.5	38.6	10.9	49.2	(D)	(NA)	(NA)
3585	Refrigeration and heating equipment	E1	22	9	1.1	12.5	0.8	1.5	7.0	29.3	39.0	68.2	0.6	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E3	83	10	0.9	11.7	0.7	1.5	8.5	20.4	11.1	31.1	1.7	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E3	83	10	0.9	11.7	0.7	1.5	8.5	20.4	11.1	31.1	1.7	(NA)	(NA)
36	Electric and electronic equipment	–	101	34	19.5	276.7	12.7	26.2	159.5	510.7	313.1	817.1	(D)	24.6	427.3
3714	Motor vehicle parts and accessories	E2	25	7	0.6	7.0	0.5	1.1	4.6	11.8	20.5	31.3	0.7	(NA)	(NA)
38	Instruments and related products	E1	41	12	1.9	20.5	1.3	2.6	11.2	38.9	33.6	71.7	2.0	0.7	11.3
39	Miscellaneous manufacturing industries	E2	108	15	1.3	12.7	0.9	1.7	7.5	24.8	24.1	48.5	0.9	(NA)	(NA)
--	Administrative and auxiliary	–	121	64	11.2	211.3	–	–	–	–	–	–	–	(NA)	(NA)
	Del Rio	–	16	4	0.7	5.0	0.5	1.0	3.5	15.7	22.6	38.6	(D)	(D)	(D)
	Denison	–	36	14	2.3	26.1	1.8	3.6	18.5	107.0	187.0	290.5	9.5	2.5	48.5
20	Food and kindred products	–	3	3	0.8	9.5	0.7	1.3	7.5	51.3	127.8	180.7	(D)	(NA)	(NA)
	Denton	–	57	22	4.1	37.6	2.9	5.8	23.0	102.7	69.1	171.3	4.7	3.3	44.7
	Duncanville	–	22	6	0.5	5.2	0.4	0.8	3.3	12.0	11.4	23.5	0.6	(NA)	(NA)
	Edinburg	–	23	7	0.5	4.6	0.3	0.6	2.7	9.6	15.3	24.8	0.4	0.5	8.0

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	El Campo	–	19	3	0.6	5.5	0.5	0.9	3.8	8.5	18.3	26.2	1.0	0.5	6.4
	El Paso	–	386	127	26.6	221.4	21.1	38.2	146.1	689.9	1 316.9	1 998.3	(D)	24.5	320.7
2328	Men's and boys' work clothing	–	11	9	3.6	23.6	3.4	6.8	21.1	86.4	62.4	147.0	0.7	(NA)	(NA)
233	Women's and misses' outerwear	E1	19	10	0.8	4.9	0.6	1.2	3.6	9.5	6.1	15.4	0.2	(NA)	(NA)
31	Leather and leather products	–	8	6	1.4	10.1	1.2	2.4	8.2	25.5	24.6	47.6	(D)	1.0	13.4
32	Stone, clay, and glass products	E1	25	10	0.8	8.9	0.6	1.2	6.2	26.3	24.4	51.0	4.1	0.5	11.0
327	Concrete, gypsum, and plaster products	E2	17	7	0.5	5.4	0.4	0.8	3.5	16.2	17.5	33.5	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	9	6	1.0	17.3	–	–	–	–	–	–	–	(NA)	(NA)
	Ennis	–	39	20	2.3	21.7	1.9	3.7	15.7	31.0	60.9	92.3	1.9	1.7	22.6
	Euless	–	19	9	1.7	17.2	1.1	1.7	7.5	45.2	35.4	78.2	6.7	1.0	20.0
	Farmers Branch	–	94	35	3.4	43.9	2.2	4.3	21.8	74.2	77.3	149.6	7.1	2.5	39.7
36	Electric and electronic equipment	E1	14	5	0.9	9.3	0.7	1.3	6.6	25.0	18.9	42.0	1.4	(NA)	(NA)
--	Administrative and auxiliary	–	11	7	0.5	11.3	–	–	–	–	–	–	–	(NA)	(NA)
	Fort Worth	–	911	313	56.2	789.5	36.3	72.2	441.4	1 913.9	1 878.3	3 633.7	114.0	46.1	850.1
20	Food and kindred products	–	73	41	5.7	78.8	3.8	7.7	51.4	229.1	540.0	771.9	19.2	4.9	91.5
204	Grain mill products	–	6	5	0.5	5.4	0.3	0.6	3.2	16.8	68.9	85.6	(D)	(NA)	(NA)
23	Apparel and other textile products	E2	42	16	1.6	11.2	1.4	2.4	7.5	23.5	29.6	53.1	0.4	(NA)	(NA)
24	Lumber and wood products	–	37	12	1.3	11.5	1.2	2.1	8.5	21.8	43.2	64.6	0.5	(NA)	(NA)
245	Wood buildings and mobile homes	–	3	3	0.8	7.0	0.7	1.2	5.3	12.8	31.8	44.4	(D)	(NA)	(NA)
2451	Mobile homes	–	3	3	0.8	7.0	0.7	1.2	5.3	12.8	31.8	44.4	(D)	(NA)	(NA)
25	Furniture and fixtures	–	37	18	2.1	16.1	1.7	3.2	11.9	28.7	26.3	54.6	1.5	1.6	18.8
2511	Wood household furniture	–	10	6	1.4	10.3	1.2	2.2	7.9	17.1	14.0	30.9	0.8	(NA)	(NA)
26	Paper and allied products	–	21	11	1.0	12.9	0.7	1.4	7.5	23.3	50.3	73.5	3.0	0.8	14.5
265	Paperboard containers and boxes	–	15	7	0.8	9.7	0.5	1.1	5.8	17.3	42.6	59.7	2.9	(NA)	(NA)
2752	Commercial printing, lithographic	–	39	18	1.2	13.4	1.0	1.9	10.6	25.9	19.8	45.4	1.2	(NA)	(NA)
28	Chemicals and allied products	–	31	9	1.7	24.4	0.6	1.2	6.4	65.4	36.7	99.7	5.4	1.1	32.2
30	Rubber and miscellaneous plastics products	–	45	22	2.5	24.4	2.0	3.9	15.9	51.0	49.9	98.3	5.0	1.5	20.4
32	Stone, clay, and glass products	E1	33	10	0.7	9.9	0.6	1.2	6.9	30.1	31.6	61.3	3.3	0.6	10.6
33	Primary metal industries	–	21	8	2.1	26.6	1.8	3.8	20.9	48.0	39.7	87.2	3.2	(NA)	(NA)
34	Fabricated metal products	–	100	36	2.7	34.2	2.2	4.6	24.4	88.4	124.2	209.8	5.5	2.3	34.0
341	Metal cans and shipping containers	–	4	4	0.5	10.4	0.4	0.9	8.0	40.2	66.3	104.7	1.9	(NA)	(NA)
3411	Metal cans	–	4	4	0.5	10.4	0.4	0.9	8.0	40.2	66.3	104.7	1.9	(NA)	(NA)
344	Fabricated structural metal products	–	44	18	1.3	14.1	1.0	2.2	9.5	25.7	38.1	63.3	1.9	(NA)	(NA)
35	Machinery, except electrical	–	136	42	6.7	87.0	5.0	10.0	57.5	216.0	236.2	448.2	11.3	4.0	82.7
3535	Conveyors and conveying equipment	–	6	4	0.6	6.4	0.4	0.9	4.0	12.3	12.3	26.0	(D)	(NA)	(NA)
3585	Refrigeration and heating equipment	–	13	5	2.2	25.4	1.7	3.0	18.0	84.7	122.1	203.3	2.0	(NA)	(NA)
36	Electric and electronic equipment	E1	34	7	0.7	5.8	0.5	0.9	4.0	11.9	8.4	19.2	0.6	(NA)	(NA)
371	Motor vehicles and equipment	E2	23	8	1.0	11.8	0.8	1.7	9.4	23.8	45.5	69.4	1.3	(NA)	(NA)
38	Instruments and related products	–	24	3	0.5	5.9	0.3	0.7	2.9	16.2	8.2	23.7	0.5	(NA)	(NA)
39	Miscellaneous manufacturing industries	–	40	7	1.4	13.0	1.0	1.7	7.6	35.3	26.9	61.2	1.1	0.8	13.4
--	Administrative and auxiliary	–	16	10	0.9	17.6	–	–	–	–	–	–	–	(NA)	(NA)
	Gainesville	–	47	17	2.5	27.8	2.1	3.9	19.0	73.7	48.7	121.4	1.6	(D)	(D)
	Galveston	–	56	23	2.8	40.8	2.3	4.5	31.5	144.1	107.5	247.9	5.3	3.1	79.9

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Garland	-	**288**	**90**	**13.5**	**173.5**	**8.9**	**16.8**	**92.7**	**474.4**	**471.1**	**948.8**	**21.2**	**12.5**	**227.9**
23	Apparel and other textile products	-	19	6	1.1	9.0	0.9	1.4	5.3	22.7	15.3	36.2	0.3	(NA)	(NA)
28	Chemicals and allied products	-	18	8	0.9	12.4	0.6	1.2	7.2	92.9	95.8	187.1	4.4	0.7	36.1
34	Fabricated metal products	-	36	16	1.4	14.6	1.1	1.8	9.8	29.1	24.3	53.6	0.9	2.5	35.4
35	Machinery, except electrical	-	54	13	2.3	31.6	1.6	3.3	20.9	78.8	58.1	138.1	4.4	1.5	27.2
36	Electric and electronic equipment	-	45	17	4.4	65.5	2.2	4.4	22.8	141.2	79.4	226.3	4.2	3.7	68.0
3662	Radio and TV communication equipment	-	15	6	2.2	40.9	0.6	1.2	8.9	72.6	35.0	114.3	1.3	(NA)	(NA)
	Graham	-	**18**	**5**	**0.9**	**10.6**	**0.7**	**1.5**	**6.6**	**27.9**	**22.4**	**49.6**	**(D)**	**(NA)**	**(NA)**
	Grand Prairie	-	**155**	**52**	**6.1**	**69.1**	**4.2**	**8.0**	**37.2**	**155.8**	**179.9**	**331.7**	**6.8**	**5.2**	**119.9**
30	Rubber and miscellaneous plastics products	-	17	7	1.1	11.8	0.8	1.6	7.4	21.2	28.6	49.0	1.2	(NA)	(NA)
3079	Miscellaneous plastics products	-	17	7	1.1	11.8	0.8	1.6	7.4	21.2	28.6	49.0	1.2	(NA)	(NA)
35	Machinery, except electrical	-	26	9	1.8	20.2	1.1	2.0	9.1	53.2	63.7	114.9	1.7	0.9	29.6
	Greenville	-	**41**	**15**	**5.1**	**61.0**	**4.0**	**8.1**	**46.2**	**120.9**	**78.4**	**196.6**	**5.9**	**2.9**	**45.9**
23	Apparel and other textile products	-	4	4	1.1	7.5	0.8	1.6	5.8	10.4	4.5	14.5	(D)	(NA)	(NA)
	Haltom City	-	**62**	**18**	**1.4**	**17.1**	**1.1**	**1.9**	**11.5**	**30.4**	**31.4**	**61.4**	**2.2**	**1.2**	**23.7**
	Harlingen	-	**46**	**21**	**2.4**	**18.3**	**1.7**	**3.3**	**11.3**	**42.5**	**66.9**	**108.8**	**2.5**	**1.7**	**20.3**
	Henderson	-	**41**	**16**	**1.7**	**16.3**	**1.3**	**2.8**	**11.4**	**34.2**	**36.0**	**69.7**	**3.3**	**1.1**	**12.5**
	Hereford	-	**31**	**8**	**1.1**	**14.7**	**0.9**	**1.8**	**11.9**	**33.0**	**210.8**	**246.0**	**(D)**	**(D)**	**(D)**
20	Food and kindred products	-	12	4	0.9	12.7	0.7	1.4	10.4	29.9	207.4	239.1	(D)	(NA)	(NA)
	Hillsboro	-	**23**	**7**	**0.6**	**5.5**	**0.4**	**0.9**	**3.6**	**19.4**	**23.8**	**44.1**	**0.4**	**1.0**	**15.0**
	Houston	-	**2 994**	**980**	**147.4**	**2 265.8**	**85.9**	**174.5**	**1 093.7**	**4 513.6**	**7 036.9**	**11 476.9**	**403.3**	**108.0**	**2 096.5**
20	Food and kindred products	-	124	54	10.1	137.8	6.4	13.1	81.1	505.4	1 290.0	1 791.7	36.9	10.2	326.6
201	Meat products	-	18	11	1.0	11.4	0.8	1.5	7.8	18.6	106.1	124.8	2.5	(NA)	(NA)
202	Dairy products	-	7	6	0.9	10.2	0.4	0.7	3.5	30.6	71.1	101.7	(D)	(NA)	(NA)
204	Grain mill products	-	12	4	1.0	12.3	0.8	1.7	8.0	88.2	257.0	345.2	5.8	(NA)	(NA)
2044	Rice milling	-	5	4	0.9	11.8	0.8	1.6	7.6	86.7	251.3	338.0	5.7	(NA)	(NA)
205	Bakery products	-	26	9	2.7	36.7	1.8	3.6	22.4	99.0	61.8	161.1	4.1	(NA)	(NA)
208	Beverages	-	12	8	2.2	32.6	1.0	2.0	14.2	125.6	164.6	290.5	13.5	(NA)	(NA)
209	Miscellaneous foods and kindred products	-	34	10	1.9	29.9	1.4	3.1	22.3	128.0	604.6	728.8	9.0	(NA)	(NA)
2095	Roasted coffee	-	6	3	1.1	21.3	0.9	2.0	17.0	95.0	576.9	668.2	7.3	(NA)	(NA)
2099	Food preparations, n.e.c.	E1	22	5	0.7	7.3	0.5	1.0	4.7	29.1	26.5	55.6	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	E2	45	3	0.5	3.7	0.4	0.8	2.7	6.4	10.1	16.5	0.2	(NA)	(NA)
24	Lumber and wood products	-	77	23	2.2	24.5	1.6	3.3	14.0	59.0	84.6	137.0	1.6	1.7	19.2
243	Millwork, plywood, and structural members	E2	27	8	0.6	6.5	0.4	0.9	3.8	12.6	20.3	32.6	0.6	(NA)	(NA)
25	Furniture and fixtures	E2	71	27	1.7	18.4	1.4	2.5	11.7	31.4	38.9	70.2	1.2	(NA)	(NA)
251	Household furniture	E3	41	16	0.9	7.1	0.7	1.3	5.0	13.8	16.1	30.0	0.4	(NA)	(NA)
254	Partitions and fixtures	E1	20	9	0.8	10.4	0.6	1.0	6.2	15.9	20.4	36.2	0.7	(NA)	(NA)
26	Paper and allied products	-	39	20	2.1	25.0	1.5	3.2	16.6	47.5	86.0	133.0	4.7	2.2	34.7
265	Paperboard containers and boxes	-	19	13	1.1	14.4	0.8	1.8	9.5	25.8	54.4	80.0	2.6	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	13	10	1.0	12.1	0.7	1.5	7.8	21.1	45.6	66.6	2.4	(NA)	(NA)
27	Printing and publishing	E1	418	66	10.4	127.0	4.9	9.2	61.1	247.5	145.7	392.8	9.0	(NA)	(NA)
2711	Newspapers	-	24	4	4.7	52.6	1.4	2.4	21.4	113.0	58.7	171.7	3.4	(NA)	(NA)
2721	Periodicals	-	26	5	1.0	14.7	(Z)	0.2	0.4	26.4	22.9	49.3	0.3	(NA)	(NA)
275	Commercial printing	E2	277	32	3.0	38.2	2.2	4.3	26.0	68.2	46.8	114.8	3.7	(NA)	(NA)
2751	Commercial printing, letteroress	E5	147	14	1.2	13.9	0.9	1.7	9.9	26.6	15.5	42.1	1.4	(NA)	(NA)
2752	Commercial printing, lithographic	E1	120	18	1.7	23.9	1.3	2.5	15.8	40.5	31.0	71.3	2.3	(NA)	(NA)
278	Blankbooks and bookbinding	E2	15	8	0.6	6.6	0.5	0.9	4.5	12.4	4.3	16.6	0.4	(NA)	(NA)
279	Printing trade services	E1	41	8	0.5	6.6	0.3	0.6	4.5	10.9	2.0	13.0	0.6	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

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		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Houston—Con.														
28	Chemicals and allied products	-	136	41	4.4	68.4	2.5	4.9	34.3	331.6	470.1	812.4	49.8	5.1	224.4
2851	Paints and allied products	E1	24	15	1.2	16.7	0.5	1.0	5.8	55.3	77.2	131.7	2.2	(NA)	(NA)
289	Miscellaneous chemical products	-	37	8	0.5	7.6	0.3	0.6	3.9	48.7	62.9	112.0	4.2	(NA)	(NA)
3079	Miscellaneous plastics products	E1	100	37	3.4	37.7	2.7	5.3	24.8	84.6	85.2	164.8	7.9	(NA)	(NA)
327	Concrete, gypsum, and plaster products	-	52	26	2.5	33.9	2.0	4.4	25.3	88.8	151.8	240.5	9.0	(NA)	(NA)
3272	Concrete products, n.e.c.	-	26	10	0.6	7.2	0.5	1.1	5.2	25.4	17.4	42.5	1.4	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products	-	37	16	1.4	17.5	1.1	2.3	11.8	36.0	45.3	84.6	1.3	(NA)	(NA)
3293	Gaskets, packing, and sealing devices	-	14	6	0.7	8.7	0.6	1.1	5.3	18.8	19.8	38.4	0.5	(NA)	(NA)
34	Fabricated metal products	E1	497	210	23.9	331.7	17.4	35.5	217.0	741.4	836.4	1 559.3	61.7	16.0	286.4
341	Metal cans and shipping containers	E1	11	9	1.7	30.4	1.3	3.0	23.6	60.9	167.5	227.5	6.8	(NA)	(NA)
3411	Metal cans	E1	5	5	1.3	24.2	1.0	2.2	19.4	43.2	144.9	187.4	5.1	(NA)	(NA)
344	Fabricated structural metal products	E1	214	95	10.2	129.9	7.2	14.2	78.8	286.2	326.9	608.6	14.0	(NA)	(NA)
3441	Fabricated structural metal	E1	50	26	2.6	33.4	2.0	4.4	22.5	58.2	69.0	127.0	4.2	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	-	40	25	3.4	46.4	2.3	4.5	28.3	119.7	95.1	209.9	5.5	(NA)	(NA)
3444	Sheet metal work	E3	51	17	1.0	11.7	0.6	1.2	6.5	22.7	30.9	53.1	1.3	(NA)	(NA)
3448	Prefabricated metal buildings	E1	19	12	1.9	25.1	1.3	2.5	14.4	60.2	86.6	147.0	(D)	(NA)	(NA)
345	Screw machine products, bolts, etc.	E2	18	8	0.9	11.2	0.7	1.3	7.4	26.6	21.9	48.9	1.4	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers	E2	14	7	0.9	10.4	0.6	1.2	6.9	24.9	19.8	45.1	1.3	(NA)	(NA)
3462	Iron and steel forgings	-	11	6	0.8	12.5	0.6	1.2	8.2	26.9	37.9	62.9	(D)	(NA)	(NA)
347	Metal services, n.e.c.	E1	70	23	1.5	17.5	1.2	2.6	12.7	38.3	20.0	57.7	3.7	(NA)	(NA)
3479	Metal coating and allied services	-	41	17	1.0	12.9	0.8	1.8	9.3	29.5	17.1	46.0	3.3	(NA)	(NA)
3494	Valves and pipe fittings	-	48	27	3.5	49.6	2.3	5.0	31.4	123.7	104.5	225.2	8.4	(NA)	(NA)
3499	Fabricated metal products, n.e.c.	E3	38	10	0.6	6.1	0.5	0.9	3.9	13.1	11.4	24.0	1.4	(NA)	(NA)
35	Machinery, except electrical	-	658	194	35.1	527.1	23.1	47.8	317.0	1 256.5	867.3	2 163.0	125.5	21.5	447.3
353	Construction and related machinery	-	118	68	23.6	364.8	15.5	32.1	222.8	942.7	562.9	1 545.3	107.7	(NA)	(NA)
3533	Oil field machinery	-	86	53	22.2	345.7	14.6	30.2	211.1	898.5	511.8	1 450.8	105.3	(NA)	(NA)
3559	Special industry machinery, n.e.c.	-	18	3	0.5	9.5	0.2	0.6	3.9	20.2	14.4	33.5	2.6	(NA)	(NA)
356	General industrial machinery	-	75	33	2.3	32.3	1.5	2.9	17.7	59.4	54.4	112.9	2.8	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	342	65	4.5	65.0	3.5	7.3	45.1	120.1	57.8	174.5	7.4	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E2	340	65	4.5	64.8	3.5	7.3	45.0	119.8	57.7	174.1	7.4	(NA)	(NA)
36	Electric and electronic equipment	-	140	44	10.3	143.9	7.0	14.2	85.3	362.8	278.5	619.2	30.7	(NA)	(NA)
3613	Switchgear and switchboard apparatus	-	16	5	0.8	11.8	0.6	1.2	6.9	28.7	34.9	63.7	0.5	(NA)	(NA)
362	Electrical industrial apparatus	E3	21	7	0.5	9.0	0.3	0.6	4.2	17.2	12.5	27.4	1.5	(NA)	(NA)
37	Transportation equipment	E1	60	16	1.3	17.9	1.1	2.1	13.3	39.6	57.3	93.2	1.3	1.3	17.0
373	Ship and boat building and repairing	E1	22	6	0.5	5.6	0.4	0.7	4.6	9.4	5.9	14.9	0.4	(NA)	(NA)
38	Instruments and related products	E3	92	30	2.1	27.8	1.4	2.7	14.6	62.4	29.6	90.4	3.4	(NA)	(NA)
3811	Engineering and scientific instruments	E1	17	8	0.5	7.2	0.4	0.8	4.6	13.8	5.0	18.5	0.7	(NA)	(NA)
39	Miscellaneous manufacturing industries	E1	127	19	2.1	21.0	1.6	3.0	13.0	43.9	37.5	80.1	1.7	(NA)	(NA)
--	Administrative and auxiliary	-	144	81	20.7	480.7	-	-	-	-	-	-	-	(NA)	(NA)
	Hurst	-	51	17	1.1	12.5	0.8	1.7	7.6	22.5	29.7	54.0	0.7	0.8	13.5
	Irving	-	164	45	6.5	90.8	3.0	5.7	31.4	175.5	152.7	325.1	6.3	3.5	92.3
35	Machinery, except electrical	-	31	5	2.6	44.3	0.8	1.6	9.9	59.6	46.6	104.1	2.2	(NA)	(NA)
--	Administrative and auxiliary	-	6	5	1.1	14.4	-	-	-	-	-	-	-	(NA)	(NA)
	Jacksonville	-	72	33	2.6	20.7	2.3	4.3	15.6	41.7	41.9	82.1	(D)	2.5	29.1
24	Lumber and wood products	-	22	13	0.7	5.6	0.6	1.2	4.5	10.9	14.8	25.8	(D)	0.9	13.0
	Kaufman	-	12	6	0.5	4.0	0.4	0.8	2.8	10.8	15.8	26.1	(D)	(NA)	(NA)
	Kennedale	-	22	4	0.7	9.0	0.6	1.2	8.1	29.2	21.0	50.7	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Kerrville	-	19	4	0.9	8.2	0.8	1.1	4.4	20.7	12.2	31.8	1.8	(NA)	(NA)
	Lancaster	-	24	12	1.0	8.7	0.8	1.8	8.5	20.9	28.0	47.7	1.4	0.7	12.5
	La Porte	-	20	9	2.4	50.5	1.5	3.1	28.6	240.3	485.6	894.4	162.1	0.5	52.3
28	Chemicals and allied products	-	9	9	2.3	49.9	1.4	3.0	28.3	239.1	464.5	692.2	(D)	(NA)	(NA)
	Laredo	-	51	9	0.7	8.2	0.5	1.0	3.4	13.8	12.2	26.0	0.8	(D)	(D)
	Lewisville	-	37	12	1.3	11.2	0.9	1.6	8.2	22.7	33.7	56.5	1.1	0.7	10.3
	Littlefield	-	12	3	0.8	7.3	0.8	1.4	8.1	8.7	24.3	32.4	(D)	(NA)	(NA)
	Lubbock	-	269	62	12.5	132.6	8.9	17.2	73.0	327.7	468.8	777.0	(D)	8.7	110.9
207	Fats and oils	-	3	3	0.5	5.6	0.4	1.1	4.1	37.1	71.5	98.5	(D)	(NA)	(NA)
2074	Cottonseed oil mills	-	3	3	0.5	5.6	0.4	1.1	4.1	37.1	71.5	98.5	(D)	(NA)	(NA)
	Lufkin	-	92	29	8.8	80.6	5.3	11.0	60.1	214.9	201.1	414.3	19.2	4.8	75.6
20	Food and kindred products	-	6	4	0.6	5.2	0.5	1.0	3.5	11.8	30.9	42.6	2.3	0.7	7.5
24	Lumber and wood products	E1	42	7	0.8	8.0	0.7	1.4	5.9	17.8	29.9	48.1	2.8	0.7	8.6
	McAllen	-	58	15	2.5	17.8	2.0	3.9	12.4	47.1	48.4	92.5	7.1	0.8	12.2
23	Apparel and other textile products	-	5	4	0.7	4.3	0.7	1.4	3.8	12.5	16.7	28.9	0.3	(NA)	(NA)
35	Machinery, except electrical	-	13	2	0.5	3.7	0.4	0.8	2.8	8.7	7.4	15.2	(D)	(NA)	(NA)
	McGregor	-	10	4	0.8	7.5	0.5	0.9	4.5	10.3	12.4	23.8	(D)	0.8	13.2
	McKinney	-	31	17	1.5	13.0	1.2	2.3	9.0	47.6	45.4	91.1	2.9	1.1	11.3
	Marshall	-	56	25	2.7	24.7	2.2	4.4	17.8	57.8	57.2	114.0	(D)	2.4	27.4
	Mesquite	-	48	14	4.1	57.0	3.2	8.5	39.0	200.4	255.9	443.9	13.8	2.8	49.9
	Mexia	-	11	7	0.8	4.0	0.5	0.9	3.1	6.5	9.9	16.7	0.3	(NA)	(NA)
	Midland	-	76	18	1.3	18.2	0.8	1.3	6.3	30.9	26.5	57.3	6.7	1.2	20.5
	Mineola	-	15	4	0.5	3.8	0.5	1.1	3.1	13.8	15.1	29.0	0.7	0.5	7.0
	Mineral Wells	-	34	11	1.8	14.3	1.0	2.1	8.2	32.5	34.5	67.7	3.0	(D)	(D)
	Nacogdoches	-	53	23	3.3	32.3	2.6	4.9	22.8	74.8	105.1	175.2	5.0	2.7	40.9
	Navasota	-	17	9	0.7	7.3	0.8	1.1	5.3	18.8	26.2	43.8	5.4	(NA)	(NA)
	New Braunfels	-	38	12	2.8	21.7	2.2	4.8	17.1	33.2	46.3	81.0	(D)	(D)	(D)
	Odessa	-	157	39	3.2	47.4	1.9	4.1	24.3	89.3	243.8	332.1	8.4	2.9	62.1
35	Machinery, except electrical	E1	68	17	1.2	16.7	0.9	2.1	11.7	32.2	28.2	59.7	4.0	0.5	7.8
353	Construction and related machinery	E2	19	7	0.5	7.4	0.4	0.8	4.6	15.7	12.0	27.2	2.4	(NA)	(NA)
	Olney	-	12	4	0.5	5.1	0.5	0.9	3.8	16.8	20.4	36.3	(D)	(NA)	(NA)
	Orange	-	44	23	8.6	144.5	5.9	10.4	89.4	314.2	723.4	1 039.9	145.5	7.0	258.7
28	Chemicals and allied products	-	8	7	4.2	91.8	2.6	5.4	53.2	210.3	591.8	802.6	118.1	(NA)	(NA)
	Paris	-	52	22	4.9	51.7	3.9	7.4	37.1	215.1	251.0	467.3	10.5	(D)	(D)
	Pasadena	-	79	30	4.8	80.8	3.2	8.1	49.6	303.1	684.8	979.9	120.7	2.2	99.3
28	Chemicals and allied products	-	21	13	3.4	63.2	2.4	4.6	41.6	279.3	663.9	936.1	119.5	1.7	93.3
	Pearland	-	28	10	0.8	7.1	0.5	1.0	4.7	17.0	18.0	34.5	0.8	(NA)	(NA)
	Plano	-	43	15	1.9	20.8	1.3	2.8	12.6	40.5	58.6	100.0	(D)	2.2	32.0
	Round Rock	-	20	3	0.5	7.3	0.2	0.5	2.8	7.4	14.0	19.9	(D)	(NA)	(NA)
	San Antonio	-	782	241	32.5	328.8	22.6	43.3	184.4	768.4	910.3	1 660.7	75.5	28.6	412.9
2026	Fluid milk	-	4	4	0.6	6.2	0.2	0.5	2.0	12.9	43.1	56.0	0.8	(NA)	(NA)
205	Bakery products	-	18	10	1.5	14.8	0.9	1.7	7.9	37.5	30.1	67.5	1.7	(NA)	(NA)
2099	Food preparations, n.e.c.	E1	29	12	1.0	8.3	0.7	1.3	5.6	27.5	25.5	52.9	(D)	(NA)	(NA)
2311	Men's and boys' suits and coats	-	6	5	1.5	9.9	1.3	2.4	7.0	21.9	6.1	27.6	(D)	(NA)	(NA)
27	Printing and publishing	E1	150	21	2.8	29.0	1.7	3.1	16.8	55.9	35.1	90.9	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	47	16	1.8	19.4	1.4	2.8	13.3	45.3	61.5	108.5	(D)	1.8	42.0
3241	Cement, hydraulic	-	3	3	0.7	9.4	0.5	1.0	6.1	25.5	37.3	64.6	9.4	(NA)	(NA)
34	Fabricated metal products	-	78	21	2.6	30.2	2.1	4.3	23.3	88.8	51.9	119.1	(D)	(NA)	(NA)
35	Machinery, except electrical	-	63	20	4.7	58.1	2.5	4.8	21.7	189.1	110.5	286.8	(D)	(NA)	(NA)
36	Electric and electronic equipment	E2	23	5	0.5	5.0	0.4	0.8	3.3	7.8	9.0	16.5	0.8	(NA)	(NA)
--	Administrative and auxiliary	-	16	6	0.8	14.2	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Sherman	-	51	25	6.3	79.5	4.5	9.0	47.9	174.7	277.1	441.3	22.7	4.9	115.4
20	Food and kindred products	-	12	7	1.1	13.8	0.9	1.8	9.7	40.5	175.4	211.4	(D)	0.6	18.0
	Stephenville	-	21	5	0.8	6.4	0.6	1.2	4.4	20.3	18.4	37.0	(D)	(NA)	(NA)
	Sugar Land	-	12	8	2.4	39.2	1.4	3.0	19.5	105.6	152.8	249.5	12.2	(D)	(D)
	Taylor	-	18	12	0.9	6.9	0.8	1.6	4.9	11.5	14.3	25.9	0.2	0.9	9.0
	Temple	-	62	30	4.2	41.9	3.2	6.9	29.0	127.6	142.7	273.6	(D)	3.7	64.7
	Terrell	-	32	13	1.5	15.3	1.2	2.3	10.5	34.1	39.7	74.1	3.3	1.3	20.5
	Texas City	-	33	12	7.9	158.0	5.3	11.2	105.8	1 300.9	4 176.9	5 392.7	117.0	7.5	601.1
	Tyler	-	151	40	8.5	100.7	6.7	12.7	70.7	291.5	413.8	698.9	(D)	7.9	161.9
	Vernon	-	15	4	0.5	4.5	0.4	0.8	3.2	18.1	31.8	50.0	(D)	(D)	(D)
	Waco	-	177	71	10.6	110.6	7.6	14.7	71.3	293.4	330.2	621.1	24.4	8.9	139.6
20	Food and kindred products	-	22	14	1.7	14.2	1.1	2.3	7.6	35.1	78.8	112.3	(D)	1.2	12.3
23	Apparel and other textile products	-	13	9	1.6	8.6	1.3	2.3	5.7	14.9	29.2	44.5	0.2	1.2	9.2
233	Women's and misses' outerwear	-	3	3	0.5	2.1	0.3	0.6	1.7	5.0	0.5	5.5	(D)	(NA)	(NA)
27	Printing and publishing	-	35	7	0.9	8.8	0.4	0.7	3.1	21.7	14.6	35.7	(D)	0.7	9.4
34	Fabricated metal products	-	16	5	0.6	7.0	0.4	0.9	3.7	15.4	17.4	32.4	(D)	0.6	7.7
344	Fabricated structural metal products	-	11	3	0.5	6.3	0.4	0.8	3.2	13.6	15.0	28.2	(D)	(NA)	(NA)
	Waxahachie	-	23	6	1.2	13.3	0.9	1.7	9.4	39.6	31.0	71.1	2.0	1.3	20.8
	Weatherford	-	34	8	0.5	5.1	0.4	0.8	3.3	12.8	19.1	31.6	1.8	(NA)	(NA)
	Weslaco	-	20	7	0.9	7.8	0.8	1.7	5.9	34.6	46.6	80.4	0.5	0.5	15.1
	Wichita Falls	-	142	46	6.9	73.2	5.5	10.2	49.1	175.0	166.0	340.0	33.3	4.2	59.5
34	Fabricated metal products	-	17	6	0.5	5.5	0.4	0.7	3.6	11.6	11.3	22.6	(D)	(NA)	(NA)
	Yoakum	-	21	8	1.2	9.6	0.8	1.5	5.0	20.3	34.8	51.7	(D)	0.5	5.7

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions sre: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum snd coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electricsl; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
TEXAS	18107	1507	1	113	925	1258	512	253	2735	843	180	582	144	1080	324	1933	2794	674	635	352	733	529
1 TO 4 EMPLOYEES	7729	523	-	42	309	662	199	55	1693	308	53	186	56	415	96	671	1237	282	278	144	412	108
5 TO 9 EMPLOYEES	2361	191	-	16	75	147	63	27	312	103	23	80	21	155	41	271	438	90	87	54	91	76
10 TO 19 EMPLOYEES	2373	177	-	15	96	144	66	31	325	118	21	85	14	163	36	284	406	82	72	49	100	89
20 TO 49 EMPLOYEES	2500	222	-	13	133	144	92	50	229	126	21	117	18	174	53	353	365	81	75	52	77	105
50 TO 99 EMPLOYEES	1375	166	-	9	123	71	51	33	100	82	13	55	20	84	37	165	160	46	43	23	27	67
100 TO 249 EMPLOYEES	1081	147	1	11	114	65	31	44	52	47	23	41	9	64	29	128	105	45	45	18	18	44
250 TO 499 EMPLOYEES	419	56	-	4	45	21	8	7	11	22	9	11	4	22	20	41	43	33	23	7	7	25
500 TO 999 EMPLOYEES	169	21	-	2	26	3	2	2	9	24	10	5	2	1	3	17	21	4	4	3	1	9
1000 TO 2499 EMPLOYEES	75	4	-	1	2	1	-	4	3	12	5	2	-	2	6	3	15	6	4	2	-	3
2500 EMPLOYEES AND OVER	25	-	-	-	2	-	-	-	1	1	2	-	-	-	3	-	4	5	4	-	-	3
ANDERSON COUNTY	39	9	-	-	2	4	2	2	4	1	1	-	1	5	1	2	3	-	1	1	-	-
1 TO 19 EMPLOYEES	22	5	-	-	-	4	1	-	3	1	-	-	1	3	-	1	2	-	-	1	-	-
20 TO 99 EMPLOYEES	12	3	-	-	1	-	1	2	1	-	1	-	-	1	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
ANDREWS COUNTY	13	2	-	-	1	-	-	-	4	2	1	-	-	1	-	-	-	1	-	-	-	1
1 TO 19 EMPLOYEES	12	2	-	-	1	-	-	-	4	2	1	-	-	1	-	-	-	-	-	-	-	1
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
ANGELINA COUNTY	127	6	-	-	1	71	2	1	11	2	1	1	-	5	4	3	12	-	2	-	2	3
1 TO 19 EMPLOYEES	89	2	-	-	1	59	1	-	8	1	-	-	-	3	1	1	8	-	1	-	2	1
20 TO 99 EMPLOYEES	21	1	-	-	-	6	1	-	2	1	1	1	-	2	1	2	3	-	-	-	-	-
100 TO 249 EMPLOYEES	7	3	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
250 EMPLOYEES AND OVER	10	-	-	-	-	4	-	1	-	-	-	-	-	-	2	-	1	-	1	-	-	1
ARANSAS COUNTY	15	4	-	1	-	-	-	-	3	1	-	-	-	1	-	-	-	-	3	-	2	-
1 TO 19 EMPLOYEES	11	2	-	1	-	-	-	-	3	-	-	-	-	1	-	-	-	-	2	-	2	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
ARCHER COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
ARMSTRONG COUNTY	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
ATASCOSA COUNTY	10	2	-	-	1	-	-	-	1	-	-	1	-	1	-	-	2	-	2	-	-	-
1 TO 19 EMPLOYEES	9	2	-	-	-	-	-	-	1	-	-	1	-	1	-	-	2	-	2	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AUSTIN COUNTY	23	1	-	-	-	1	1	-	4	-	1	-	-	4	2	-	4	-	2	2	1	-
1 TO 19 EMPLOYEES	18	1	-	-	-	1	1	-	4	-	1	-	-	4	-	-	4	-	-	1	1	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
BAILEY COUNTY	11	4	-	-	-	-	-	-	1	-	-	-	-	-	-	1	4	-	1	-	-	-
1 TO 19 EMPLOYEES	10	3	-	-	-	-	-	-	1	-	-	-	-	-	-	1	4	-	1	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BANDERA COUNTY	7	-	-	-	1	-	-	-	2	1	-	-	1	1	-	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	1	-	-	-	2	1	-	-	-	1	-	-	-	1	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
BASTROP COUNTY	27	3	-	-	-	5	2	-	4	-	-	-	-	4	1	2	2	-	-	3	1	-
1 TO 19 EMPLOYEES	18	2	-	-	-	4	-	-	4	-	-	-	-	1	1	1	2	-	-	2	1	-
20 TO 99 EMPLOYEES	7	1	-	-	-	1	2	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
BAYLOR COUNTY	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-
BEE COUNTY	10	2	-	-	-	-	-	-	1	1	-	-	-	1	-	4	-	-	-	-	1	-
1 TO 19 EMPLOYEES	8	1	-	-	-	-	-	-	-	1	-	-	-	1	-	4	-	-	-	-	1	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
BELL COUNTY	95	6	-	-	4	7	8	1	16	3	-	6	3	8	5	5	9	-	3	2	6	3
1 TO 19 EMPLOYEES	54	2	-	-	1	4	1	-	11	3	-	2	2	3	2	4	6	-	3	2	5	3
20 TO 99 EMPLOYEES	26	3	-	-	2	2	3	-	4	-	-	1	1	4	2	1	2	-	-	-	1	-
100 TO 249 EMPLOYEES	11	1	-	-	1	1	2	-	1	-	-	2	-	1	1	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-

See footnotes st end of tsble.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
BEXAR COUNTY	858	111	1	2	50	36	40	8	159	26	14	16	15	61	10	93	69	23	30	16	58	20
1 TO 19 EMPLOYEES	599	59	-	2	27	22	29	4	137	17	10	11	8	40	6	67	49	18	23	14	44	12
20 TO 99 EMPLOYEES	175	31	-	-	8	11	11	3	18	8	3	5	3	13	2	18	14	4	2	2	13	6
100 TO 249 EMPLOYEES	52	10	1	-	9	3	-	1	2	-	1	-	4	6	2	5	4	-	3	-	-	1
250 EMPLOYEES AND OVER	32	11	-	-	6	-	-	-	2	1	-	-	-	2	-	3	2	1	2	-	1	1
BLANCO COUNTY	5	-	-	-	-	-	-	-	-	-	-	1	1	1	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	1	1	1	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
BORDEN COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
BOSQUE COUNTY	21	1	-	-	6	2	-	-	4	-	-	-	1	1	-	1	5	-	-	-	-	-
1 TO 19 EMPLOYEES	16	1	-	-	4	1	-	-	4	-	-	-	1	-	-	1	4	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BOWIE COUNTY	75	11	-	-	2	23	1	-	8	3	-	-	-	9	-	8	4	-	1	2	3	-
1 TO 19 EMPLOYEES	49	5	-	-	1	17	-	-	6	2	-	-	-	6	-	6	2	-	-	1	3	-
20 TO 99 EMPLOYEES	17	4	-	-	1	4	-	-	1	1	-	-	-	2	-	1	2	-	-	1	-	-
100 TO 249 EMPLOYEES	8	2	-	-	-	2	1	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
BRAZORIA COUNTY	145	8	-	2	1	4	-	-	14	16	4	11	-	15	2	23	26	5	6	5	2	1
1 TO 19 EMPLOYEES	92	8	-	2	-	3	-	-	13	5	1	9	-	11	-	11	15	3	5	3	2	1
20 TO 99 EMPLOYEES	39	-	-	-	1	1	-	-	1	5	-	2	-	4	1	10	10	1	1	2	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	1	1	-	-	-	-	2	1	-	-	-	-	-
250 EMPLOYEES AND OVER	9	-	-	-	-	-	-	-	-	5	2	-	-	-	1	-	-	1	-	-	-	-
BRAZOS COUNTY	63	5	-	-	1	2	2	-	16	4	1	4	-	5	-	7	8	2	2	1	2	1
1 TO 19 EMPLOYEES	41	3	-	-	1	2	1	-	13	2	1	3	-	-	-	4	6	1	1	1	1	1
20 TO 99 EMPLOYEES	16	1	-	-	-	-	-	-	1	2	-	-	-	5	-	2	2	1	1	-	1	-
100 TO 249 EMPLOYEES	5	1	-	-	-	-	1	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
BREWSTER COUNTY	6	-	-	-	-	-	-	-	3	1	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	-	-	-	3	1	-	-	-	1	-	-	1	-	-	-	-	-
BRISCOE COUNTY	7	-	-	-	-	-	-	-	2	-	-	-	-	1	-	2	2	-	-	-	-	-
1 TO 19 EMPLOYEES	7	-	-	-	-	-	-	-	2	-	-	-	-	1	-	2	2	-	-	-	-	-
BROOKS COUNTY	5	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	1
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
BROWN COUNTY	47	10	-	1	1	2	1	-	7	-	-	3	1	5	1	2	5	1	4	1	2	-
1 TO 19 EMPLOYEES	31	7	-	-	1	2	1	-	5	-	-	1	-	3	-	2	4	-	3	1	1	-
20 TO 99 EMPLOYEES	11	3	-	-	-	-	-	-	2	-	-	1	1	1	-	-	-	1	1	-	1	-
100 TO 249 EMPLOYEES	3	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
BURLESON COUNTY	9	1	-	-	-	-	1	-	2	2	-	-	-	-	1	2	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	1	-	-	-	-	-	-	2	2	-	-	-	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BURNET COUNTY	18	-	-	-	-	-	1	-	4	-	-	1	-	5	-	1	3	2	1	-	-	-
1 TO 19 EMPLOYEES	15	-	-	-	-	-	1	-	4	-	-	1	-	3	-	1	3	1	1	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
CALDWELL COUNTY	15	5	-	-	1	2	1	-	3	-	-	-	-	-	-	-	2	-	1	-	-	-
1 TO 19 EMPLOYEES	10	2	-	-	-	1	1	-	3	-	-	-	-	-	-	-	2	-	1	-	-	-
20 TO 99 EMPLOYEES	4	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CALHOUN COUNTY	23	4	-	-	-	-	-	-	3	5	-	-	-	4	1	1	2	-	2	-	-	1
1 TO 19 EMPLOYEES	18	3	-	-	-	-	-	-	3	2	-	-	-	4	-	1	2	-	2	-	-	1
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-
CALLAHAN COUNTY	6	-	-	-	-	-	-	-	3	-	-	-	-	-	-	1	1	-	1	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
CAMERON COUNTY	151	31	-	3	14	3	2	3	17	7	1	1	-	11	1	12	13	7	14	-	5	6
1 TO 19 EMPLOYEES	95	14	-	3	8	3	1	2	13	6	1	-	-	8	1	7	11	2	9	-	3	3
20 TO 99 EMPLOYEES	33	10	-	-	1	-	1	-	3	-	-	1	-	1	-	4	2	3	3	-	1	3
100 TO 249 EMPLOYEES	11	5	-	-	-	-	-	1	1	1	-	-	-	1	-	1	-	1	-	-	-	-
250 EMPLOYEES AND OVER	12	2	-	-	5	-	-	-	-	-	-	-	-	1	-	-	-	1	2	-	1	-
CAMP COUNTY	14	3	-	-	1	2	1	-	1	-	-	-	-	3	-	-	1	1	-	-	-	1
1 TO 19 EMPLOYEES	9	1	-	-	-	2	-	-	1	-	-	-	-	3	-	-	1	1	-	-	-	-
20 TO 99 EMPLOYEES	4	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CARSON COUNTY	6	-	-	-	1	-	-	-	1	1	-	-	-	-	-	1	1	-	-	-	1	-
1 TO 19 EMPLOYEES	4	-	-	-	1	-	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
CASS COUNTY	31	4	-	-	2	12	-	2	4	1	-	-	1	2	-	2	-	-	1	-	-	-
1 TO 19 EMPLOYEES	24	4	-	-	1	9	-	-	4	1	-	-	-	2	-	2	-	-	1	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CASTRO COUNTY	7	1	-	-	-	-	-	-	2	-	-	-	-	2	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	-	-	-	2	-	-	-	-	2	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHAMBERS COUNTY	7	2	-	-	-	-	-	-	-	1	1	-	1	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
CHEROKEE COUNTY	114	7	-	-	6	45	4	1	9	4	-	8	1	3	-	4	13	2	2	-	4	1
1 TO 19 EMPLOYEES	74	6	-	-	2	30	2	-	7	3	-	4	-	3	-	3	9	2	1	-	2	-
20 TO 99 EMPLOYEES	34	1	-	-	2	14	1	1	2	1	-	3	1	-	-	1	4	-	1	-	1	1
100 TO 249 EMPLOYEES	4	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
CHILDRESS COUNTY	10	1	-	-	1	1	-	-	2	-	-	1	-	-	-	2	1	-	1	-	-	-
1 TO 19 EMPLOYEES	8	1	-	-	-	-	-	-	2	-	-	1	-	-	-	2	1	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLAY COUNTY	9	1	-	-	1	1	-	1	2	-	-	-	1	-	-	1	-	-	-	-	1	-
1 TO 19 EMPLOYEES	7	1	-	-	1	-	-	1	2	-	-	-	-	-	-	1	-	-	-	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COCHRAN COUNTY	5	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COKE COUNTY	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
COLEMAN COUNTY	14	1	-	1	1	-	1	-	2	-	-	-	-	4	-	-	3	-	1	-	-	-
1 TO 19 EMPLOYEES	10	1	-	1	-	-	-	-	2	-	-	-	-	2	-	-	3	-	1	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
COLLIN COUNTY	131	12	-	-	5	5	6	3	16	2	2	7	4	7	3	16	17	11	4	1	7	3
1 TO 19 EMPLOYEES	88	7	-	-	2	3	3	3	13	1	2	5	2	4	-	12	15	5	3	-	7	1
20 TO 99 EMPLOYEES	30	4	-	-	1	2	2	-	3	1	-	2	1	3	2	1	1	4	-	1	-	2
100 TO 249 EMPLOYEES	10	-	-	-	2	-	1	-	-	-	-	-	1	-	1	2	1	2	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
COLLINGSWORTH COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
COLORADO COUNTY	19	3	-	-	-	1	-	-	3	-	-	1	-	4	-	-	5	-	1	-	1	-
1 TO 19 EMPLOYEES	15	2	-	-	-	1	-	-	3	-	-	-	-	3	-	-	5	-	-	-	1	-
20 TO 99 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
COMAL COUNTY	42	8	-	4	1	-	1	1	3	-	-	1	4	3	-	7	3	1	2	-	3	-
1 TO 19 EMPLOYEES	27	5	-	1	-	-	-	1	2	-	-	1	4	1	-	4	3	1	2	-	2	-
20 TO 99 EMPLOYEES	7	2	-	1	-	-	-	-	1	-	-	-	-	1	-	1	-	-	-	-	1	-
100 TO 249 EMPLOYEES	6	1	-	-	1	-	1	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COMANCHE COUNTY	16	3	-	-	2	1	1	-	2	1	-	-	-	3	-	-	2	-	-	-	1	-
1 TO 19 EMPLOYEES	12	1	-	-	1	1	1	-	2	1	-	-	-	2	-	-	2	-	-	-	1	-
20 TO 99 EMPLOYEES	3	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CONCHO COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
COOKE COUNTY	56	6	-	-	4	3	-	-	5	1	-	8	2	4	2	4	10	-	4	-	3	-
1 TO 19 EMPLOYEES	36	5	-	-	1	1	-	-	4	-	-	6	1	3	-	4	6	-	3	-	2	-
20 TO 99 EMPLOYEES	14	1	-	-	3	1	-	-	1	-	-	1	-	1	2	-	3	-	-	-	1	-
100 TO 249 EMPLOYEES	3	-	-	-	-	1	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	-	-	-
CORYELL COUNTY	21	3	-	-	2	-	-	-	8	-	-	2	-	1	-	-	2	-	2	-	1	-
1 TO 19 EMPLOYEES	15	3	-	-	-	-	-	-	8	-	-	-	-	1	-	-	1	-	1	-	1	-
20 TO 99 EMPLOYEES	5	-	-	-	1	-	-	-	-	-	-	2	-	-	-	-	1	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COTTLE COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
CRANE COUNTY	4	-	-	-	-	-	-	-	1	1	-	-	-	-	1	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
CROCKETT COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CROSBY COUNTY	8	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	4	-	1	-	-	-
1 TO 19 EMPLOYEES	7	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	4	-	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CULBERSON COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
DALLAM COUNTY	11	4	-	-	-	-	-	-	2	1	-	-	-	1	-	-	2	-	1	-	-	-
1 TO 19 EMPLOYEES	9	2	-	-	-	-	-	-	2	1	-	-	-	1	-	-	2	-	1	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DALLAS COUNTY	3235	163	-	27	275	108	92	90	589	171	15	102	11	114	50	342	404	222	84	71	150	153
1 TO 19 EMPLOYEES	2224	90	-	18	152	82	60	41	485	119	8	66	6	76	32	227	300	149	62	49	129	73
20 TO 99 EMPLOYEES	698	40	-	8	82	20	27	27	87	40	5	28	4	27	16	87	65	39	13	14	17	52
100 TO 249 EMPLOYEES	198	17	-	1	26	5	3	18	11	7	2	5	1	9	-	20	21	19	6	5	4	18
250 EMPLOYEES AND OVER	115	16	-	-	15	1	2	4	6	5	-	3	-	2	2	8	18	15	3	3	-	12
DAWSON COUNTY	15	3	-	-	2	-	-	-	3	-	-	-	-	1	-	1	5	-	-	-	-	-
1 TO 19 EMPLOYEES	10	2	-	-	-	-	-	-	3	-	-	-	-	1	-	1	3	-	-	-	-	-
20 TO 99 EMPLOYEES	4	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEAF SMITH COUNTY	31	12	-	-	3	-	-	-	6	1	-	-	-	1	-	1	5	-	-	-	1	1
1 TO 19 EMPLOYEES	23	8	-	-	2	-	-	-	5	1	-	-	-	1	-	1	3	-	-	-	1	1
20 TO 99 EMPLOYEES	5	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DELTA COUNTY	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
DENTON COUNTY	123	7	-	-	3	10	7	1	17	4	-	7	2	8	2	13	18	4	8	1	7	4
1 TO 19 EMPLOYEES	87	5	-	-	1	8	6	1	13	2	-	3	2	5	2	7	15	4	5	1	5	2
20 TO 99 EMPLOYEES	22	1	-	-	-	2	-	-	2	2	-	3	-	2	-	4	2	-	2	-	1	1
100 TO 249 EMPLOYEES	10	1	-	-	1	-	1	-	1	-	-	1	-	1	-	1	-	-	1	-	1	1
250 EMPLOYEES AND OVER	4	-	-	-	1	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanstion of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Estsblishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
DE WITT COUNTY	19	4	-	1	1	1	-	-	3	-	-	2	1	3	-	-	2	1	-	-	-	-
1 TO 19 EMPLOYEES	11	1	-	-	-	-	-	-	3	-	-	1	-	3	-	-	2	1	-	-	-	-
20 TO 99 EMPLOYEES	5	3	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
DICKENS COUNTY	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DIMMIT COUNTY	5	2	-	-	1	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
DONLEY COUNTY	5	1	-	-	-	-	-	-	1	-	-	-	1	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	1	-	-	-	1	1	-	-	1	-	-	-	-	-
DUVAL COUNTY	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EASTLAND COUNTY	35	3	-	-	4	-	-	-	4	-	-	2	2	4	1	7	3	-	2	-	-	3
1 TO 19 EMPLOYEES	23	2	-	-	2	-	-	-	3	-	-	1	1	2	-	5	3	-	1	-	-	3
20 TO 99 EMPLOYEES	10	1	-	-	1	-	-	-	1	-	-	1	1	2	1	2	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
ECTOR COUNTY	220	3	-	1	3	5	3	-	16	16	5	1	1	11	2	29	103	4	5	-	5	7
1 TO 19 EMPLOYEES	153	1	-	1	3	5	3	-	15	8	1	1	1	8	1	15	74	4	3	-	5	4
20 TO 99 EMPLOYEES	54	2	-	-	-	-	-	-	-	6	3	-	-	3	1	13	23	-	2	-	-	1
100 TO 249 EMPLOYEES	11	-	-	-	-	-	-	-	1	1	1	-	-	-	-	1	6	-	-	-	-	1
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
EDWARDS COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
ELLIS COUNTY	93	1	-	-	10	2	9	1	10	3	4	5	2	10	5	9	10	1	3	-	7	1
1 TO 19 EMPLOYEES	52	1	-	-	2	-	4	1	8	3	3	2	1	5	2	4	7	-	3	-	5	1
20 TO 99 EMPLOYEES	24	-	-	-	6	2	3	-	1	-	-	2	-	1	2	4	1	-	-	-	2	-
100 TO 249 EMPLOYEES	10	-	-	-	1	-	2	-	-	-	1	1	-	2	-	1	1	1	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	1	-	-	-	1	-	-	-	1	2	1	-	1	-	-	-	-	-
EL PASO COUNTY	407	70	-	1	61	21	10	4	62	13	4	4	8	25	5	30	24	14	7	9	26	9
1 TO 19 EMPLOYEES	269	47	-	-	26	15	6	2	53	11	2	4	2	15	-	19	18	12	5	6	23	3
20 TO 99 EMPLOYEES	77	13	-	-	11	3	3	2	6	2	-	-	3	7	-	9	5	2	1	2	3	5
100 TO 249 EMPLOYEES	35	8	-	1	10	3	-	-	2	-	2	-	2	3	1	2	1	-	-	-	-	-
250 EMPLOYEES AND OVER	26	2	-	-	14	-	1	-	1	-	-	-	1	-	4	-	-	-	1	1	-	1
ERATH COUNTY	29	3	-	-	2	1	-	-	7	-	1	3	-	2	-	4	2	-	1	1	-	2
1 TO 19 EMPLOYEES	24	3	-	-	1	-	-	-	7	-	1	2	-	1	-	4	2	-	-	1	-	2
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
FALLS COUNTY	14	2	-	1	1	-	-	-	4	1	-	-	-	1	-	1	-	-	1	-	2	-
1 TO 19 EMPLOYEES	8	1	-	-	-	-	-	-	3	1	-	-	-	-	-	1	-	-	1	-	1	-
20 TO 99 EMPLOYEES	4	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FANNIN COUNTY	32	2	-	1	2	8	1	-	6	1	-	-	-	1	1	-	7	-	-	-	2	-
1 TO 19 EMPLOYEES	24	1	-	1	1	5	1	-	6	-	-	-	-	1	-	-	6	-	-	-	2	-
20 TO 99 EMPLOYEES	4	1	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
FAYETTE COUNTY	34	8	-	-	-	1	-	-	5	2	-	1	-	4	-	4	3	-	2	1	2	1
1 TO 19 EMPLOYEES	27	8	-	-	-	1	-	-	5	2	-	1	-	2	-	3	3	-	-	-	1	1
20 TO 99 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	2	1	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
FISHER COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
FLOYD COUNTY	9	1	-	-	-	-	-	-	4	-	-	-	-	-	-	-	3	-	1	-	-	-
1 TO 19 EMPLOYEES	8	1	-	-	-	-	-	-	4	-	-	-	-	-	-	-	2	-	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-

See footnotes at end of tsble.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

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State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
FOARD COUNTY	2	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FORT BEND COUNTY	76	5	-	-	1	4	1	1	11	4	-	-	-	6	3	18	14	-	3	1	2	2
1 TO 19 EMPLOYEES	42	1	-	-	1	1	1	1	11	2	-	-	-	2	1	8	9	-	1	1	1	1
20 TO 99 EMPLOYEES	22	3	-	-	-	3	-	-	-	1	-	-	-	4	-	7	1	-	2	-	1	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	10	1	-	-	-	-	-	-	-	1	-	-	-	-	1	3	3	-	-	-	-	1
FRANKLIN COUNTY	9	1	-	-	2	2	2	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	1	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FREESTONE COUNTY	11	-	-	-	1	2	-	-	3	1	-	-	-	2	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	9	-	-	-	-	2	-	-	3	1	-	-	-	1	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
FRIO COUNTY	5	-	-	-	-	-	-	-	1	-	1	2	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	1	2	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
GAINES COUNTY	11	1	-	-	1	-	-	-	2	1	-	-	-	2	-	-	2	-	2	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	1	-	-	-	2	-	-	-	-	1	-	-	2	-	2	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-
GALVESTON COUNTY	130	16	-	1	3	2	1	-	20	11	7	2	-	11	4	10	14	4	15	4	3	2
1 TO 19 EMPLOYEES	86	11	-	1	3	1	1	-	16	6	3	1	-	5	-	5	12	4	9	3	3	2
20 TO 99 EMPLOYEES	31	4	-	-	-	1	-	-	4	1	1	1	-	6	3	4	2	-	4	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-
250 EMPLOYEES AND OVER	10	1	-	-	-	-	-	-	-	3	3	-	-	-	1	-	-	-	2	-	-	-
GARZA COUNTY	4	1	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GILLESPIE COUNTY	21	2	-	-	1	1	3	-	3	-	-	-	-	4	-	1	2	-	-	-	4	-
1 TO 19 EMPLOYEES	17	1	-	-	-	1	2	-	3	-	-	-	-	4	-	1	2	-	-	-	3	-
20 TO 99 EMPLOYEES	3	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GOLIAD COUNTY	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
GONZALES COUNTY	26	18	-	-	1	-	-	-	1	-	1	1	-	2	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	18	12	-	-	-	-	-	-	1	-	-	1	-	2	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	6	4	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAY COUNTY	37	7	-	-	1	1	-	-	4	2	-	-	-	1	-	3	14	1	-	-	-	3
1 TO 19 EMPLOYEES	25	6	-	-	-	1	-	-	3	-	-	-	-	-	-	3	10	1	-	-	-	1
20 TO 99 EMPLOYEES	7	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	3	-	-	-	-	1
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
GRAYSON COUNTY	123	20	-	2	12	6	3	6	18	1	1	1	1	3	7	14	15	1	5	2	4	1
1 TO 19 EMPLOYEES	66	9	-	1	3	5	3	2	15	1	-	-	-	2	2	8	10	-	1	1	3	-
20 TO 99 EMPLOYEES	36	6	-	-	6	-	-	4	3	-	1	1	1	-	3	5	2	-	2	-	1	1
100 TO 249 EMPLOYEES	10	1	-	-	2	1	-	-	-	-	-	-	-	-	1	1	2	-	2	-	-	-
250 EMPLOYEES AND OVER	11	4	-	1	1	-	-	-	-	-	-	-	-	1	1	-	1	1	-	1	-	-
GREGG COUNTY	181	10	-	1	10	10	1	3	17	10	2	2	-	10	6	24	46	9	9	5	3	3
1 TO 19 EMPLOYEES	114	4	-	-	4	9	1	-	15	7	-	1	-	8	4	9	31	6	4	5	3	3
20 TO 99 EMPLOYEES	43	5	-	-	2	1	-	2	1	2	1	1	-	1	1	9	12	3	2	-	-	-
100 TO 249 EMPLOYEES	14	-	-	1	3	-	-	1	1	-	1	-	-	-	1	4	1	-	1	-	-	-
250 EMPLOYEES AND OVER	10	1	-	-	1	-	-	-	-	1	-	-	-	1	-	2	2	-	2	-	-	-
GRIMES COUNTY	21	3	-	-	-	3	1	-	1	1	-	1	-	1	1	3	3	1	1	-	1	-
1 TO 19 EMPLOYEES	12	2	-	-	-	1	-	-	1	1	-	1	-	1	-	-	3	1	-	-	1	-
20 TO 99 EMPLOYEES	7	1	-	-	-	2	1	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
GUADALUPE COUNTY	44	7	-	1	1	-	2	-	6	1	-	2	-	3	-	8	6	1	4	1	1	-
1 TO 19 EMPLOYEES	32	4	-	-	-	-	1	-	5	1	-	1	-	2	-	7	5	-	4	1	1	-
20 TO 99 EMPLOYEES	8	2	-	-	1	-	1	-	1	-	-	1	-	1	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
HALE COUNTY	54	10	-	-	4	-	1	-	9	4	1	-	1	2	-	3	18	-	-	1	-	-
1 TO 19 EMPLOYEES	41	7	-	-	3	-	1	-	8	3	1	-	1	2	-	1	14	-	-	-	-	-
20 TO 99 EMPLOYEES	10	1	-	-	-	-	-	-	1	1	-	-	-	-	-	2	4	-	-	1	-	-
100 TO 249 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HALL COUNTY	4	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	1	-	-	-	-	-
HAMILTON COUNTY	14	5	-	-	1	1	-	-	2	1	-	-	-	1	-	1	1	-	-	-	1	-
1 TO 19 EMPLOYEES	11	4	-	-	-	-	-	-	2	1	-	-	-	1	-	1	1	-	-	-	1	-
20 TO 99 EMPLOYEES	3	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MANSFORD COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
HARDEMAN COUNTY	11	4	-	1	1	-	-	-	2	-	-	-	-	1	-	1	-	-	-	-	1	-
1 TO 19 EMPLOYEES	8	3	-	1	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	1	-
20 TO 99 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
HARDIN COUNTY	30	1	-	-	1	14	-	-	3	-	1	-	-	2	-	1	6	-	-	-	-	1
1 TO 19 EMPLOYEES	20	1	-	-	1	8	-	-	3	-	-	-	-	2	-	1	4	-	-	-	-	-
20 TO 99 EMPLOYEES	9	-	-	-	-	5	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	1
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARRIS COUNTY	3707	138	-	16	75	94	84	45	489	229	32	151	5	163	86	603	823	164	93	108	149	160
1 TO 19 EMPLOYEES	2493	78	-	13	66	68	53	21	417	123	16	98	4	94	48	362	587	114	64	73	126	68
20 TO 99 EMPLOYEES	873	32	-	2	7	20	27	13	61	69	8	41	1	54	29	168	176	35	22	31	17	60
100 TO 249 EMPLOYEES	203	15	-	1	1	4	4	8	8	20	1	8	-	10	6	50	33	8	5	4	5	12
250 EMPLOYEES AND OVER	138	13	-	-	1	2	-	3	3	17	7	4	-	5	3	23	27	7	2	-	1	20
HARRISON COUNTY	66	5	-	1	1	9	1	1	5	3	-	-	-	7	6	10	9	2	2	-	2	2
1 TO 19 EMPLOYEES	37	3	-	1	-	6	-	1	4	-	-	-	-	3	3	6	5	2	1	-	1	1
20 TO 99 EMPLOYEES	17	2	-	-	-	2	1	-	1	2	-	-	-	2	-	1	4	-	-	-	1	1
100 TO 249 EMPLOYEES	7	-	-	-	-	1	-	-	-	-	-	-	-	2	2	1	-	-	1	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	1	-	-	-	-	1	-	-	-	-	1	2	-	-	-	-	-	-
HARTLEY COUNTY	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
HASKELL COUNTY	4	-	-	-	-	-	-	-	2	-	-	-	-	1	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	2	-	-	-	-	1	-	1	-	-	-	-	-	-
HAYS COUNTY	24	4	-	1	-	1	1	-	6	1	-	1	-	5	-	-	-	3	-	-	1	-
1 TO 19 EMPLOYEES	17	3	-	-	-	1	-	-	6	1	-	1	-	4	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	4	1	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
HEMPHILL COUNTY	4	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MENDERSON COUNTY	50	5	-	-	7	5	2	-	6	2	-	1	-	6	-	3	6	3	3	1	-	-
1 TO 19 EMPLOYEES	36	4	-	-	3	4	2	-	5	2	-	-	-	4	-	1	6	2	2	1	-	-
20 TO 99 EMPLOYEES	9	1	-	-	2	-	-	-	1	-	-	1	-	1	-	2	-	-	1	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
HIDALGO COUNTY	169	43	-	-	10	4	4	3	24	2	2	3	1	10	2	9	24	2	8	2	12	4
1 TO 19 EMPLOYEES	124	28	-	-	3	3	4	-	21	2	2	1	-	5	2	8	21	1	8	1	11	3
20 TO 99 EMPLOYEES	26	7	-	-	2	1	-	2	2	-	-	1	1	4	-	1	2	1	-	-	1	1
100 TO 249 EMPLOYEES	14	8	-	-	2	-	-	1	1	-	-	1	-	-	-	-	-	-	-	1	-	-
250 EMPLOYEES AND OVER	5	-	-	-	3	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-

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		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
HILL COUNTY	37	6	-	2	8	-	1	-	5	1	-	1	-	8	1	-	2	1	1	-	-	-
1 TO 19 EMPLOYEES	26	6	-	2	4	-	-	-	5	1	-	-	-	5	-	-	2	-	1	-	-	-
20 TO 99 EMPLOYEES	9	-	-	-	4	-	1	-	-	-	-	1	-	3	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
HOCKLEY COUNTY	17	3	-	-	-	-	-	-	6	-	-	-	-	-	-	1	7	-	-	-	-	-
1 TO 19 EMPLOYEES	16	2	-	-	-	-	-	-	6	-	-	-	-	-	-	1	7	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HOOD COUNTY	11	-	-	-	2	-	-	-	3	-	-	-	-	4	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	9	-	-	-	-	-	-	-	3	-	-	-	-	4	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HOPKINS COUNTY	34	10	-	-	3	3	-	-	4	3	-	1	-	4	-	3	1	-	1	-	-	1
1 TO 19 EMPLOYEES	21	5	-	-	2	1	-	-	3	3	-	-	-	3	-	1	1	-	1	-	-	1
20 TO 99 EMPLOYEES	10	5	-	-	-	1	-	-	1	-	-	1	-	1	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HOUSTON COUNTY	41	-	-	-	4	22	2	-	4	-	-	1	-	1	-	1	6	-	-	-	-	-
1 TO 19 EMPLOYEES	32	-	-	-	1	19	1	-	3	-	-	1	-	1	-	-	6	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	2	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
HOWARD COUNTY	32	1	-	-	2	3	-	-	6	4	1	1	-	2	1	2	6	1	-	1	1	-
1 TO 19 EMPLOYEES	20	1	-	-	-	1	-	-	5	2	-	-	-	1	1	2	6	1	-	-	-	-
20 TO 99 EMPLOYEES	7	-	-	-	1	1	-	-	1	1	-	-	-	1	-	-	-	-	-	1	1	-
100 TO 249 EMPLOYEES	4	-	-	-	1	1	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
HUNT COUNTY	61	8	-	-	9	5	3	1	9	2	-	3	2	6	-	1	3	2	3	-	2	2
1 TO 19 EMPLOYEES	37	4	-	-	2	2	2	-	6	2	-	2	2	6	-	1	2	1	1	-	2	2
20 TO 99 EMPLOYEES	9	3	-	-	4	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	9	-	-	-	1	3	1	-	2	-	-	-	-	-	-	-	-	1	1	-	-	-
250 EMPLOYEES AND OVER	6	1	-	-	2	-	-	-	-	-	-	1	-	-	-	-	1	-	1	-	-	-
HUTCHINSON COUNTY	29	-	-	-	-	-	-	-	5	5	3	-	-	1	-	1	7	-	-	-	-	7
1 TO 19 EMPLOYEES	15	-	-	-	-	-	-	-	4	1	-	-	-	-	-	1	5	-	-	-	-	4
20 TO 99 EMPLOYEES	7	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	2	-	-	-	-	2
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	1
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
JACK COUNTY	5	-	-	-	2	-	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JACKSON COUNTY	5	-	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
JASPER COUNTY	60	6	-	-	-	39	-	2	5	-	-	-	-	3	-	1	3	-	-	-	-	1
1 TO 19 EMPLOYEES	48	4	-	-	-	30	-	1	5	-	-	-	-	3	-	1	3	-	-	-	-	1
20 TO 99 EMPLOYEES	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	2	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JEFFERSON COUNTY	240	18	-	1	7	12	4	-	27	19	13	7	1	14	4	41	30	4	20	1	8	9
1 TO 19 EMPLOYEES	156	10	-	1	7	10	2	-	23	4	2	6	1	9	2	24	22	3	15	-	8	7
20 TO 99 EMPLOYEES	43	5	-	-	-	2	2	-	2	6	2	1	-	4	-	9	7	-	2	-	-	1
100 TO 249 EMPLOYEES	17	2	-	-	-	-	-	-	1	2	2	-	-	1	1	6	-	1	1	-	-	-
250 EMPLOYEES AND OVER	24	1	-	-	-	-	-	-	1	7	7	-	-	-	1	2	1	-	2	1	-	1
JIM HOGG COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
JIM WELLS COUNTY	24	5	-	-	-	1	-	-	3	2	-	-	1	1	-	1	7	-	-	-	3	-
1 TO 19 EMPLOYEES	18	3	-	-	-	1	-	-	2	2	-	-	-	1	-	1	5	-	-	-	3	-
20 TO 99 EMPLOYEES	6	2	-	-	-	-	-	-	1	-	-	-	1	-	-	-	2	-	-	-	-	-
JOHNSON COUNTY	101	4	-	3	7	7	7	2	9	2	-	2	-	11	1	11	14	4	9	1	6	1
1 TO 19 EMPLOYEES	70	3	-	2	3	3	5	1	8	1	-	2	-	8	1	10	10	2	6	-	5	-
20 TO 99 EMPLOYEES	20	1	-	-	2	3	2	1	1	1	-	-	-	-	-	1	2	1	2	1	1	1
100 TO 249 EMPLOYEES	6	-	-	1	1	-	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
JONES COUNTY	11	4	-	-	-	1	-	-	3	-	-	-	-	1	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	8	2	-	-	-	1	-	-	3	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	3	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
KARNES COUNTY	12	3	-	-	-	-	1	-	3	1	-	1	-	-	1	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	9	3	-	-	-	-	-	-	3	-	-	1	-	-	1	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
KAUFMAN COUNTY	61	4	-	1	5	3	5	-	9	6	-	1	-	4	2	8	10	-	1	-	2	-
1 TO 19 EMPLOYEES	42	3	-	-	2	3	3	-	8	5	-	-	-	4	2	1	8	-	1	-	2	-
20 TO 99 EMPLOYEES	13	1	-	1	2	-	1	-	1	1	-	1	-	-	-	3	2	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	1	-	1	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
KENDALL COUNTY	9	1	-	-	-	-	-	-	2	-	-	-	-	1	-	1	2	-	-	1	1	-
1 TO 19 EMPLOYEES	8	1	-	-	-	-	-	-	2	-	-	-	-	1	-	1	2	-	-	1	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
KENT COUNTY	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
KERR COUNTY	25	-	-	-	-	2	2	-	7	2	-	-	-	2	-	1	4	1	3	-	1	-
1 TO 19 EMPLOYEES	21	-	-	-	-	2	2	-	6	2	-	-	-	2	-	-	4	1	2	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-
KIMBLE COUNTY	5	-	-	1	-	-	-	-	1	1	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
KLEBERG COUNTY	8	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	2	1	1	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	1	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
KNOX COUNTY	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
LAMAR COUNTY	57	14	-	-	3	6	3	-	7	2	-	1	-	7	-	2	5	2	1	1	2	1
1 TO 19 EMPLOYEES	35	5	-	-	1	4	3	-	5	2	-	-	-	6	-	-	4	1	1	-	2	1
20 TO 99 EMPLOYEES	11	5	-	-	1	1	-	-	1	-	-	1	-	1	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	5	2	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-
250 EMPLOYEES AND OVER	6	2	-	-	1	-	-	-	1	-	-	-	-	-	-	1	-	1	-	-	-	-
LAMB COUNTY	18	1	-	3	-	-	-	-	5	1	-	-	-	1	-	1	5	-	-	-	1	-
1 TO 19 EMPLOYEES	15	1	-	1	-	-	-	-	5	-	-	-	-	1	-	1	5	-	-	-	1	-
20 TO 99 EMPLOYEES	2	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAMPASAS COUNTY	12	3	-	-	1	1	-	-	1	-	-	-	1	2	-	-	2	-	-	-	1	-
1 TO 19 EMPLOYEES	9	1	-	-	-	1	-	-	1	-	-	-	1	2	-	-	2	-	-	-	1	-
20 TO 99 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA SALLE COUNTY	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
LAVACA COUNTY	38	11	-	-	5	-	1	-	3	1	-	-	7	3	-	3	3	-	-	-	1	-
1 TO 19 EMPLOYEES	26	8	-	-	2	-	-	-	3	1	-	-	4	3	-	2	2	-	-	-	1	-
20 TO 99 EMPLOYEES	9	2	-	-	2	-	1	-	-	-	-	-	3	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
LEE COUNTY	11	2	-	-	-	1	1	-	1	-	-	-	-	-	-	1	2	-	1	-	2	-
1 TO 19 EMPLOYEES	8	1	-	-	-	1	-	-	1	-	-	-	-	-	-	1	2	-	-	-	2	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
LEON COUNTY	12	-	-	-	-	4	-	-	2	-	1	-	-	2	1	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	10	-	-	-	-	3	-	-	2	-	1	-	-	2	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
LIBERTY COUNTY	50	2	-	-	1	20	-	-	8	2	-	-	-	2	1	4	8	-	-	1	-	1
1 TO 19 EMPLOYEES	39	2	-	-	1	17	-	-	7	1	-	-	-	1	-	2	7	-	-	1	-	-
20 TO 99 EMPLOYEES	10	-	-	-	-	3	-	-	1	1	-	-	-	1	-	2	1	-	-	-	-	1
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groupa descriptions are: 20--food and kindred products; 21--tobacco manufacturea; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
LIMESTONE COUNTY	18	1	-	2	2	-	1	-	3	-	-	-	-	2	1	2	2	1	1	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	-	-	-	2	-	-	-	-	2	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	10	-	-	1	2	-	1	-	1	-	-	-	-	-	1	2	-	1	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LIPSCOMB COUNTY	4	-	-	-	-	-	-	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-
LIVE OAK COUNTY	4	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
LLANO COUNTY	10	1	-	-	-	-	-	-	2	-	-	-	-	6	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	9	1	-	-	-	-	-	-	2	-	-	-	-	5	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
LUBBOCK COUNTY	290	29	-	5	13	12	11	2	40	12	3	4	2	18	7	36	66	5	6	3	11	5
1 TO 19 EMPLOYEES	222	12	-	4	9	10	11	2	38	12	3	1	2	13	5	29	47	4	4	2	10	4
20 TO 99 EMPLOYEES	44	8	-	1	3	2	-	-	1	-	-	2	-	5	1	7	12	-	-	-	1	1
100 TO 249 EMPLOYEES	15	7	-	-	1	-	-	-	-	-	-	1	-	-	1	-	4	-	1	-	-	-
250 EMPLOYEES AND OVER	9	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	3	1	1	1	-	-
LYNN COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
MC CULLOCH COUNTY	9	2	-	2	-	-	-	-	1	-	-	-	-	3	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	7	2	-	1	-	-	-	-	1	-	-	-	-	3	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
MC LENNAN COUNTY	261	29	-	1	21	20	9	9	41	4	1	11	3	17	2	26	26	6	9	8	12	6
1 TO 19 EMPLOYEES	149	12	-	1	7	8	5	2	34	4	1	4	1	8	2	17	18	3	3	6	9	4
20 TO 99 EMPLOYEES	68	11	-	-	6	6	2	5	4	-	-	4	2	7	-	5	5	2	4	1	3	1
100 TO 249 EMPLOYEES	31	4	-	-	6	4	2	2	1	-	-	2	-	1	-	3	3	-	1	1	-	1
250 EMPLOYEES AND OVER	13	2	-	-	2	2	-	-	2	-	-	1	-	1	-	1	-	1	1	-	-	-
MC MULLEN COUNTY	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
MADISON COUNTY	7	-	-	-	2	-	-	-	4	-	-	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	1	-	-	-	4	-	-	-	-	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARION COUNTY	16	1	-	-	-	10	1	-	1	-	-	-	-	-	-	-	-	-	-	-	3	-
1 TO 19 EMPLOYEES	14	-	-	-	-	9	1	-	1	-	-	-	-	-	-	-	-	-	-	-	3	-
20 TO 99 EMPLOYEES	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARTIN COUNTY	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
MASON COUNTY	8	2	-	-	-	-	-	-	1	-	-	-	1	3	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	8	2	-	-	-	-	-	-	1	-	-	-	1	3	-	-	-	-	1	-	-	-
MATAGORDA COUNTY	28	10	-	-	-	-	-	-	4	3	-	-	-	5	-	-	3	-	2	-	1	-
1 TO 19 EMPLOYEES	22	7	-	-	-	-	-	-	3	2	-	-	-	4	-	-	3	-	2	-	1	-
20 TO 99 EMPLOYEES	5	3	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
MAVERICK COUNTY	14	4	-	-	5	-	-	-	2	-	-	-	1	-	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	9	4	-	-	1	-	-	-	2	-	-	-	1	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEDINA COUNTY	19	-	-	-	-	-	-	-	5	1	1	2	-	4	-	2	2	-	1	1	-	-
1 TO 19 EMPLOYEES	15	-	-	-	-	-	-	-	5	1	1	1	-	2	-	2	2	-	-	1	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-
MENARD COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explsnation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
MIDLAND COUNTY	94	7	-	-	2	3	3	-	18	7	1	6	-	5	-	11	17	2	2	-	5	5
1 TO 19 EMPLOYEES	70	5	-	-	1	3	3	-	13	7	1	4	-	3	-	9	12	1	2	-	4	2
20 TO 99 EMPLOYEES	19	2	-	-	-	-	-	-	4	-	-	2	-	2	-	2	3	1	-	-	1	2
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	1
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MILAM COUNTY	21	3	-	-	1	2	2	-	3	-	-	-	-	6	1	1	2	-	-	-	-	-
1 TO 19 EMPLOYEES	16	3	-	-	-	1	-	-	3	-	-	-	-	6	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
MILLS COUNTY	8	-	-	-	1	-	-	-	1	1	-	-	-	1	-	1	2	-	-	-	1	-
1 TO 19 EMPLOYEES	5	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-
MITCHELL COUNTY	8	-	-	-	1	-	-	-	3	-	-	1	-	-	-	-	3	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
MONTAGUE COUNTY	23	1	-	-	3	-	-	-	5	-	-	-	2	1	-	2	2	-	5	-	2	-
1 TO 19 EMPLOYEES	17	1	-	-	-	-	-	-	5	-	-	-	1	1	-	2	1	-	5	-	1	-
20 TO 99 EMPLOYEES	5	-	-	-	3	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
MONTGOMERY COUNTY	89	2	-	-	-	24	-	1	8	3	-	2	-	5	1	7	24	3	3	1	3	2
1 TO 19 EMPLOYEES	59	-	-	-	-	16	-	1	6	1	-	1	-	3	1	4	19	1	3	1	2	-
20 TO 99 EMPLOYEES	26	2	-	-	-	8	-	-	2	1	-	-	-	2	-	2	4	2	-	-	1	2
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
MOORE COUNTY	15	2	-	-	-	-	1	-	2	4	1	-	-	2	-	-	3	-	-	-	-	-
1 TO 19 EMPLOYEES	10	1	-	-	-	-	1	-	2	-	1	-	-	2	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORRIS COUNTY	31	2	-	-	1	10	-	-	4	2	1	-	-	3	1	2	2	1	1	-	-	1
1 TO 19 EMPLOYEES	21	2	-	-	-	9	-	-	4	1	-	-	-	3	-	-	-	1	1	-	-	-
20 TO 99 EMPLOYEES	9	-	-	-	1	1	-	-	-	1	1	-	-	-	-	2	2	-	-	-	-	1
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
MOTLEY COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
NACOGDOCHES COUNTY	67	7	-	-	1	34	1	-	5	3	-	-	-	4	-	3	1	2	2	-	1	3
1 TO 19 EMPLOYEES	41	2	-	-	-	26	-	-	3	1	-	-	-	3	-	1	1	1	1	-	1	1
20 TO 99 EMPLOYEES	16	2	-	-	-	7	-	-	1	2	-	-	-	1	-	1	-	-	-	-	-	2
100 TO 249 EMPLOYEES	5	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	1	1	-	-	-
250 EMPLOYEES AND OVER	5	2	-	-	-	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
NAVARRO COUNTY	38	4	-	-	4	-	2	1	7	3	-	4	1	5	1	1	3	-	2	-	-	-
1 TO 19 EMPLOYEES	17	1	-	-	1	-	1	-	5	1	-	-	1	2	-	1	2	-	2	-	-	-
20 TO 99 EMPLOYEES	15	2	-	-	2	-	1	1	2	1	-	3	-	2	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
NEWTON COUNTY	38	-	-	-	-	35	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	35	-	-	-	-	32	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NOLAN COUNTY	24	6	-	-	2	-	-	-	3	-	-	1	-	5	-	1	1	-	2	1	1	1
1 TO 19 EMPLOYEES	11	3	-	-	-	-	-	-	2	-	-	-	-	2	-	-	1	-	1	-	1	1
20 TO 99 EMPLOYEES	7	1	-	-	1	-	-	-	1	-	-	1	-	-	-	1	-	-	1	1	-	-
100 TO 249 EMPLOYEES	6	2	-	-	1	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
NUECES COUNTY	221	28	-	-	5	3	10	1	38	10	6	1	1	23	5	24	33	5	10	4	10	4
1 TO 19 EMPLOYEES	155	13	-	-	3	1	9	1	33	5	1	-	1	16	2	18	29	2	7	4	7	3
20 TO 99 EMPLOYEES	43	8	-	-	-	2	1	-	4	2	1	1	-	6	2	6	3	2	2	-	3	-
100 TO 249 EMPLOYEES	9	4	-	-	1	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	1
250 EMPLOYEES AND OVER	14	3	-	-	1	-	-	-	1	3	4	-	-	-	1	-	-	1	-	-	-	-

See footnotes st end of tsble.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groupa descriptions are: 20--food and kindred products; 21--tobacco manufacturea; 22--textile mill producta; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
OCHILTREE COUNTY	12	3	-	-	-	-	-	-	1	-	-	1	-	-	-	2	4	-	-	-	-	1
1 TO 19 EMPLOYEES	10	1	-	-	-	-	-	-	1	-	-	1	-	-	-	2	4	-	-	-	-	1
20 TO 99 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ORANGE COUNTY	74	2	-	-	-	3	-	3	9	8	1	4	-	4	1	10	9	4	11	-	4	1
1 TO 19 EMPLOYEES	47	1	-	-	-	2	-	-	8	1	1	1	-	2	1	7	9	4	6	-	3	1
20 TO 99 EMPLOYEES	15	1	-	-	-	1	-	-	1	3	-	2	-	2	-	2	-	-	2	-	1	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	2	-	-	-	1	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	8	-	-	-	-	-	-	1	-	4	-	-	-	-	-	1	-	-	2	-	-	-
PALO PINTO COUNTY	40	1	-	-	5	1	-	2	5	2	-	3	-	5	1	3	6	3	-	1	2	-
1 TO 19 EMPLOYEES	25	1	-	-	3	1	-	-	5	2	-	2	-	2	1	2	4	-	-	-	2	-
20 TO 99 EMPLOYEES	9	-	-	-	2	-	-	1	-	-	-	-	-	2	-	1	1	2	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	1	-	-	-	1	-	1	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-
PANOLA COUNTY	21	-	-	-	-	8	-	-	2	-	-	1	-	2	-	2	4	-	2	-	-	-
1 TO 19 EMPLOYEES	17	-	-	-	-	5	-	-	2	-	-	-	-	2	-	2	4	-	2	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
PARKER COUNTY	53	7	-	-	2	2	2	-	4	3	-	3	1	8	1	5	9	2	4	-	-	-
1 TO 19 EMPLOYEES	41	4	-	-	1	2	2	-	3	3	-	2	1	6	1	4	6	2	4	-	-	-
20 TO 99 EMPLOYEES	10	3	-	-	1	-	-	-	1	-	-	-	-	2	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
PARMER COUNTY	15	7	-	-	2	-	-	-	3	1	-	-	-	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	11	4	-	-	1	-	-	-	3	1	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	3	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PECOS COUNTY	10	3	-	-	1	-	-	-	3	1	-	-	-	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	8	2	-	-	-	-	-	-	3	1	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POLK COUNTY	46	1	-	-	-	33	-	-	2	1	-	-	-	1	-	1	6	-	-	-	1	-
1 TO 19 EMPLOYEES	39	1	-	-	-	28	-	-	1	1	-	-	-	1	-	1	5	-	-	-	1	-
20 TO 99 EMPLOYEES	3	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POTTER COUNTY	180	28	-	1	8	11	6	2	30	7	1	5	4	14	5	9	26	2	7	2	6	6
1 TO 19 EMPLOYEES	129	13	-	1	5	10	5	1	24	5	-	4	4	8	4	7	19	2	6	2	5	4
20 TO 99 EMPLOYEES	39	11	-	-	1	-	1	1	5	2	-	1	-	6	-	2	6	-	1	-	1	1
100 TO 249 EMPLOYEES	7	3	-	-	1	-	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	5	1	-	-	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
PRESIDIO COUNTY	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RAINS COUNTY	7	-	-	-	2	1	-	-	1	-	-	1	-	-	1	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	1	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
RANDALL COUNTY	31	4	-	-	1	1	-	-	8	2	1	-	-	-	-	5	5	1	-	-	2	1
1 TO 19 EMPLOYEES	22	1	-	-	-	1	-	-	8	1	1	-	-	-	-	4	3	1	-	-	2	-
20 TO 99 EMPLOYEES	7	3	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1	-	-	-	-	1
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
REAGAN COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
REAL COUNTY	2	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
RED RIVER COUNTY	24	3	-	-	1	8	1	-	1	-	-	-	-	1	-	4	1	-	2	-	2	-
1 TO 19 EMPLOYEES	14	3	-	-	-	6	-	-	1	-	-	-	-	1	-	-	1	-	1	-	1	-
20 TO 99 EMPLOYEES	6	-	-	-	-	1	-	-	-	-	-	-	-	-	-	3	-	-	1	-	1	-
100 TO 249 EMPLOYEES	4	-	-	-	1	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
REEVES COUNTY	15	2	-	-	1	-	-	-	3	-	-	-	-	1	1	-	6	-	-	-	1	-
1 TO 19 EMPLOYEES	11	1	-	-	-	-	-	-	2	-	-	-	-	1	1	-	5	-	-	-	1	-
20 TO 99 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

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State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
REFUGIO COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
ROBERTSON COUNTY	11	1	-	-	-	2	-	-	2	-	-	-	-	1	1	2	-	-	2	-	-	-
1 TO 19 EMPLOYEES	6	1	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	2	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	1	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
ROCKWALL COUNTY	17	-	-	1	2	1	-	-	2	-	-	1	1	1	3	3	-	-	1	-	1	-
1 TO 19 EMPLOYEES	13	-	-	1	1	1	-	-	2	-	-	1	-	1	2	2	-	-	1	-	1	-
20 TO 99 EMPLOYEES	3	-	-	-	1	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
RUNNELS COUNTY	13	2	-	-	1	-	-	-	3	-	-	-	1	1	-	1	1	1	2	-	-	-
1 TO 19 EMPLOYEES	8	-	-	-	1	-	-	-	3	-	-	-	1	1	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
RUSK COUNTY	53	3	-	1	1	19	3	-	6	2	-	4	-	3	-	2	5	-	2	-	2	-
1 TO 19 EMPLOYEES	36	3	-	1	1	15	-	-	5	2	-	-	-	2	-	-	3	-	2	-	2	-
20 TO 99 EMPLOYEES	11	-	-	-	-	2	2	-	1	-	-	4	-	-	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
SABINE COUNTY	19	-	-	-	-	18	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	17	-	-	-	-	16	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAN AUGUSTINE COUNTY	35	1	-	-	-	28	-	-	2	-	-	-	-	1	-	-	1	-	2	-	-	-
1 TO 19 EMPLOYEES	32	1	-	-	-	26	-	-	2	-	-	-	-	1	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
SAN JACINTO COUNTY	11	-	-	-	-	7	-	-	1	-	-	-	-	-	-	-	2	-	-	1	-	-
1 TO 19 EMPLOYEES	11	-	-	-	-	7	-	-	1	-	-	-	-	-	-	-	2	-	-	1	-	-
SAN PATRICIO COUNTY	27	1	-	-	-	-	-	-	5	4	-	2	-	2	1	1	2	4	4	-	1	-
1 TO 19 EMPLOYEES	20	1	-	-	-	-	-	-	4	2	-	2	-	1	-	1	1	4	3	-	1	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-
SAN SABA COUNTY	6	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	1	-	-	-
1 TO 19 EMPLOYEES	6	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	1	-	-	-
SCHLEICHER COUNTY	3	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
SCURRY COUNTY	15	1	-	-	2	-	-	-	5	-	1	-	-	2	1	1	1	-	-	-	-	1
1 TO 19 EMPLOYEES	12	-	-	-	1	-	-	-	5	-	1	-	-	2	-	1	1	-	-	-	-	1
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
SHACKELFORD COUNTY	7	1	-	-	-	-	-	-	2	-	-	-	-	-	-	3	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
SHELBY COUNTY	53	7	-	-	-	30	-	-	2	2	-	-	-	2	-	-	4	1	-	-	1	4
1 TO 19 EMPLOYEES	43	6	-	-	-	22	-	-	2	2	-	-	-	2	-	-	4	1	-	-	1	3
20 TO 99 EMPLOYEES	7	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHERMAN COUNTY	4	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
SMITH COUNTY	171	17	-	2	10	14	7	4	18	5	5	9	-	14	5	21	18	4	3	6	6	3
1 TO 19 EMPLOYEES	120	8	-	2	6	12	4	1	16	3	4	3	-	10	4	15	13	4	3	5	4	3
20 TO 99 EMPLOYEES	33	7	-	-	1	1	2	1	1	2	-	5	-	3	-	5	2	-	-	1	2	-
100 TO 249 EMPLOYEES	11	2	-	-	1	1	1	1	1	-	1	-	-	1	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	2	-	-	1	-	-	-	1	-	-	1	-	2	-	-	-	-	-
SOMERVELL COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
STARR COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
STEPHENS COUNTY	18	1	-	-	2	3	1	-	2	-	-	-	-	1	-	1	4	-	2	-	-	1
1 TO 19 EMPLOYEES	10	1	-	-	-	2	-	-	2	-	-	-	-	1	-	-	2	-	1	-	-	1
20 TO 99 EMPLOYEES	6	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	2	-	1	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUTTON COUNTY	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
SWISHER COUNTY	14	2	-	-	1	-	-	-	3	1	-	-	-	1	1	-	5	-	-	-	-	-
1 TO 19 EMPLOYEES	12	2	-	-	-	-	-	-	3	1	-	-	-	1	1	-	4	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
TARRANT COUNTY	1649	93	-	6	60	82	70	37	219	64	9	92	19	72	35	187	293	61	104	40	69	37
1 TO 19 EMPLOYEES	1104	42	-	4	38	58	45	17	175	43	5	51	12	51	23	118	209	43	64	31	55	20
20 TO 99 EMPLOYEES	394	31	-	2	17	16	22	13	36	16	1	27	6	18	9	54	65	9	25	6	8	13
100 TO 249 EMPLOYEES	105	16	-	-	4	6	2	7	6	4	2	9	-	3	-	14	9	6	9	1	4	3
250 EMPLOYEES AND OVER	46	4	-	-	1	2	1	-	2	1	1	5	1	-	3	1	10	3	6	2	2	1
TAYLOR COUNTY	124	21	-	-	6	2	2	2	17	6	8	4	2	6	-	8	15	4	5	5	9	2
1 TO 19 EMPLOYEES	85	10	-	-	3	2	2	1	13	5	6	3	2	5	-	4	12	3	4	3	7	-
20 TO 99 EMPLOYEES	25	6	-	-	1	-	-	1	3	1	-	1	-	1	-	3	3	-	1	1	1	2
100 TO 249 EMPLOYEES	6	3	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	8	2	-	-	1	-	-	-	1	-	-	-	-	-	-	1	-	1	-	1	1	-
TERRELL COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
TERRY COUNTY	11	-	-	-	2	-	-	-	4	-	-	-	-	-	-	3	2	-	-	-	-	-
1 TO 19 EMPLOYEES	8	-	-	-	-	-	-	-	4	-	-	-	-	-	-	2	2	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
THROCKMORTON COUNTY	6	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	1	1	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	1	1	-	-
TITUS COUNTY	37	12	-	-	1	4	1	-	3	-	1	-	-	6	1	1	5	-	1	1	-	-
1 TO 19 EMPLOYEES	25	7	-	-	-	2	-	-	3	-	-	-	-	5	1	1	4	-	1	1	-	-
20 TO 99 EMPLOYEES	9	3	-	-	1	2	1	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOM GREEN COUNTY	100	22	-	1	3	6	4	1	16	2	-	2	3	5	2	5	10	2	7	3	5	1
1 TO 19 EMPLOYEES	73	16	-	1	2	5	4	1	14	2	-	2	1	4	-	2	7	1	6	2	3	-
20 TO 99 EMPLOYEES	13	2	-	-	-	-	-	-	-	-	-	-	1	1	-	3	3	-	-	-	2	1
100 TO 249 EMPLOYEES	10	4	-	-	-	1	-	-	2	-	-	-	-	-	2	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1	-	-
TRAVIS COUNTY	426	38	-	1	9	25	18	3	119	19	2	16	3	24	4	29	33	24	7	21	23	8
1 TO 19 EMPLOYEES	319	22	-	1	6	20	15	2	100	13	2	14	3	18	3	20	25	14	4	13	19	5
20 TO 99 EMPLOYEES	84	12	-	-	2	5	1	1	17	6	-	2	-	4	1	9	6	7	2	5	3	1
100 TO 249 EMPLOYEES	13	4	-	-	1	-	-	-	1	-	-	-	-	2	-	-	-	-	-	3	-	2
250 EMPLOYEES AND OVER	10	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	2	3	1	-	1	-
TRINITY COUNTY	21	-	-	-	2	18	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	18	-	-	-	1	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
TYLER COUNTY	49	-	-	-	-	41	-	-	1	-	-	-	-	1	1	2	3	-	-	-	-	-
1 TO 19 EMPLOYEES	41	-	-	-	-	35	-	-	1	-	-	-	-	1	-	1	3	-	-	-	-	-
20 TO 99 EMPLOYEES	7	-	-	-	-	6	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
UPSHUR COUNTY	23	1	-	-	2	8	-	-	4	-	-	-	1	3	-	-	3	1	-	-	-	-
1 TO 19 EMPLOYEES	20	1	-	-	2	7	-	-	4	-	-	-	1	2	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-
UPTON COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
UVALDE COUNTY	15	2	-	1	1	1	-	-	4	1	-	-	1	1	-	1	-	-	-	-	2	-
1 TO 19 EMPLOYEES	14	2	-	1	-	1	-	-	4	1	-	-	1	1	-	1	-	-	-	-	2	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
VAL VERDE COUNTY	16	5	-	-	3	-	-	-	3	-	-	-	-	2	1	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	12	4	-	-	1	-	-	-	2	-	-	-	-	2	1	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	3	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VAN ZANDT COUNTY	26	1	-	-	8	1	-	-	5	1	-	-	-	2	-	4	2	-	1	-	1	-
1 TO 19 EMPLOYEES	18	1	-	-	3	-	-	-	5	-	-	-	-	2	-	3	2	-	1	-	1	-
20 TO 99 EMPLOYEES	5	-	-	-	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
VICTORIA COUNTY	43	9	-	-	-	1	-	-	7	4	-	1	-	8	-	2	7	1	1	-	2	-
1 TO 19 EMPLOYEES	30	7	-	-	-	1	-	-	6	3	-	1	-	4	-	1	3	1	1	-	2	-
20 TO 99 EMPLOYEES	7	2	-	-	-	-	-	-	-	-	-	-	-	3	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
WALKER COUNTY	42	1	-	-	2	20	-	-	2	2	-	-	-	5	-	1	4	3	1	-	1	-
1 TO 19 EMPLOYEES	29	1	-	-	-	15	-	-	1	2	-	-	-	3	-	1	4	2	-	-	-	-
20 TO 99 EMPLOYEES	9	-	-	-	2	1	-	-	1	-	-	-	-	2	-	-	-	1	1	-	1	-
100 TO 249 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WALLER COUNTY	14	2	-	-	1	1	-	-	2	2	-	-	-	1	-	-	4	-	-	1	-	-
1 TO 19 EMPLOYEES	14	2	-	-	1	1	-	-	2	2	-	-	-	1	-	-	4	-	-	1	-	-
WARD COUNTY	13	3	-	-	-	-	-	-	3	2	1	-	-	-	-	-	4	-	-	-	-	-
1 TO 19 EMPLOYEES	12	2	-	-	-	-	-	-	3	2	1	-	-	-	-	-	4	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WASHINGTON COUNTY	30	7	-	1	2	2	4	-	4	1	-	1	-	2	-	1	1	1	1	-	2	-
1 TO 19 EMPLOYEES	15	5	-	-	-	1	1	-	4	1	-	-	-	1	-	-	-	-	1	-	1	-
20 TO 99 EMPLOYEES	12	1	-	-	2	1	2	-	-	-	-	1	-	1	-	1	1	1	-	-	1	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WEBB COUNTY	60	9	-	1	5	2	1	-	11	-	-	-	5	3	1	2	9	4	1	2	3	1
1 TO 19 EMPLOYEES	43	6	-	1	1	2	1	-	10	-	-	-	3	2	-	1	8	4	1	1	2	-
20 TO 99 EMPLOYEES	13	2	-	-	2	-	-	-	1	-	-	-	2	1	1	1	1	-	-	1	-	1
100 TO 249 EMPLOYEES	4	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
WHARTON COUNTY	39	5	-	-	3	2	2	-	8	-	-	1	-	3	3	2	6	1	-	-	1	2
1 TO 19 EMPLOYEES	31	3	-	-	2	1	2	-	8	-	-	1	-	3	-	2	5	1	-	-	1	2
20 TO 99 EMPLOYEES	6	2	-	-	-	1	-	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WHEELER COUNTY	9	-	-	-	-	-	-	-	2	1	2	-	-	2	-	-	1	-	-	-	-	1
1 TO 19 EMPLOYEES	7	-	-	-	-	-	-	-	2	-	1	-	-	2	-	-	1	-	-	-	-	1
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
WICHITA COUNTY	168	17	-	-	8	8	4	1	13	6	5	4	6	14	3	19	41	5	3	1	7	3
1 TO 19 EMPLOYEES	116	12	-	-	4	5	3	-	10	6	5	1	6	12	1	12	26	3	2	-	5	3
20 TO 99 EMPLOYEES	33	4	-	-	2	1	1	-	2	-	-	2	-	-	1	6	11	-	1	-	2	-
100 TO 249 EMPLOYEES	13	1	-	-	1	2	-	1	1	-	-	1	-	-	1	1	3	-	-	1	-	-
250 EMPLOYEES AND OVER	6	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	1	2	-	-	-	-
WILBARGER COUNTY	15	3	-	-	3	-	-	-	2	1	-	-	-	1	-	1	4	-	-	-	-	-
1 TO 19 EMPLOYEES	11	2	-	-	2	-	-	-	1	-	-	-	-	1	-	1	4	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
WILLACY COUNTY	11	4	-	-	1	-	-	-	1	1	-	1	1	-	-	1	-	-	1	-	-	-
1 TO 19 EMPLOYEES	8	4	-	-	-	-	-	-	1	1	-	-	-	-	-	1	-	-	1	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WILLIAMSON COUNTY	77	3	-	1	9	5	6	1	9	2	-	7	-	7	2	4	10	6	3	-	2	-
1 TO 19 EMPLOYEES	56	3	-	-	4	5	1	1	7	2	-	4	-	7	2	3	9	4	3	-	1	-
20 TO 99 EMPLOYEES	16	-	-	-	5	-	3	-	2	-	-	3	-	-	-	1	1	-	-	-	1	-
100 TO 249 EMPLOYEES	4	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-

See footnotes at end of tsble.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
WILSON COUNTY	8	2	-	-	-	1	-	-	2	1	-	-	-	1	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	2	-	-	-	1	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
WINKLER COUNTY	5	-	-	-	1	-	-	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
WISE COUNTY	31	2	-	-	3	-	2	-	5	-	3	-	-	3	-	-	8	1	2	1	-	1
1 TO 19 EMPLOYEES	25	2	-	-	2	-	1	-	5	-	3	-	-	2	-	-	7	-	1	1	-	1
20 TO 99 EMPLOYEES	5	-	-	-	1	-	1	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
WOOD COUNTY	33	4	-	-	6	3	-	-	4	2	1	-	-	4	1	2	4	-	2	-	-	-
1 TO 19 EMPLOYEES	26	2	-	-	3	3	-	-	4	1	1	-	-	4	1	2	4	-	1	-	-	-
20 TO 99 EMPLOYEES	6	2	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YOAKUM COUNTY	4	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
YOUNG COUNTY	30	2	-	1	2	2	-	-	6	-	1	1	-	5	-	1	4	1	2	-	1	1
1 TO 19 EMPLOYEES	21	2	-	-	-	2	-	-	6	-	-	-	-	5	-	-	4	-	-	-	1	1
20 TO 99 EMPLOYEES	3	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
ZAPATA COUNTY	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
ZAVALA COUNTY	8	3	-	-	-	-	-	-	1	-	-	-	-	-	-	2	1	-	-	-	-	1
1 TO 19 EMPLOYEES	7	2	-	-	-	-	-	-	1	-	-	-	-	-	-	2	1	-	-	-	-	1
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

Utah

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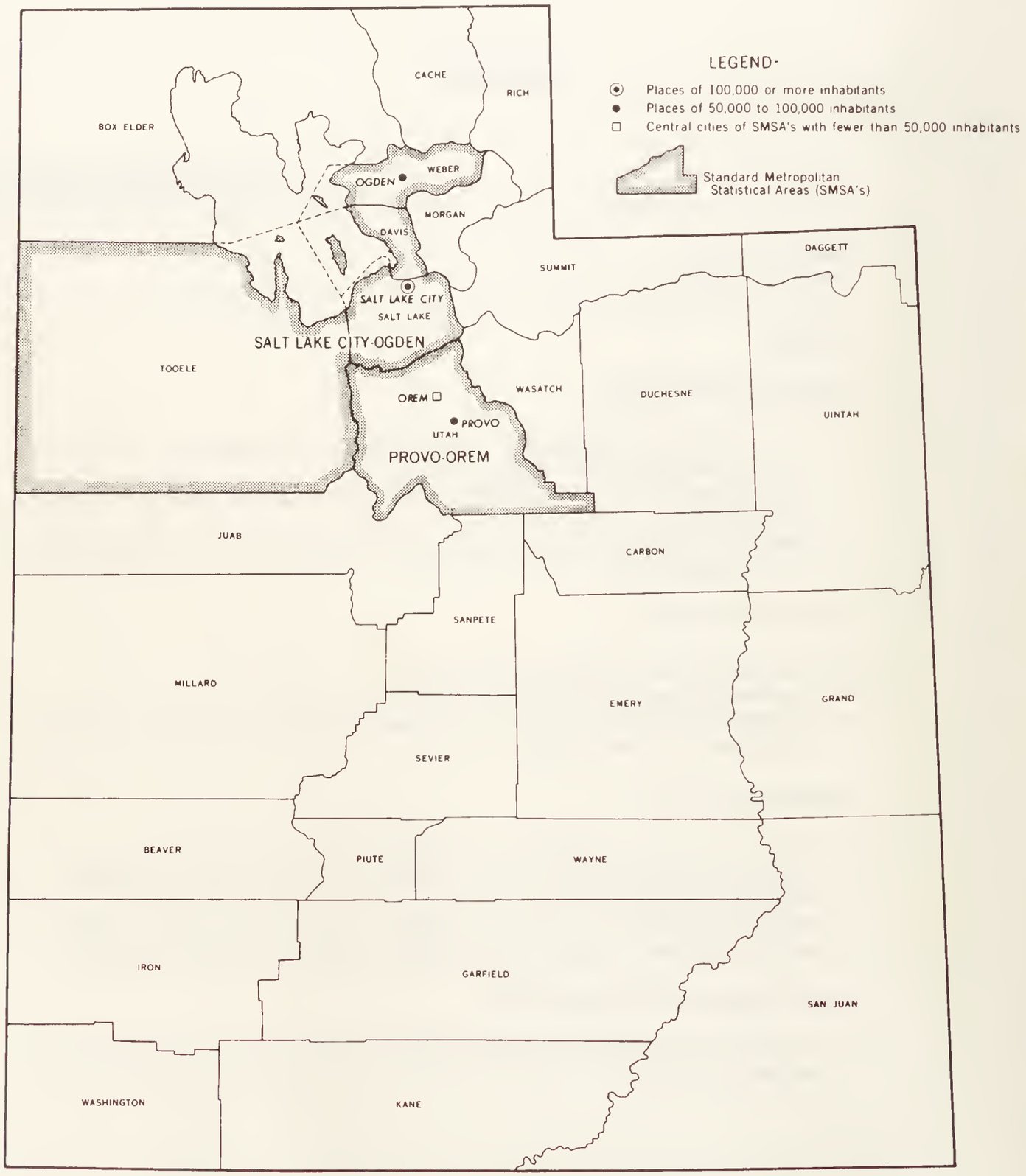
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UTAH



U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 70.2 thousand persons were employed in Utah's manufacturing establishments. This figure represented an increase of 24 percent from the 1972 figure of 56.6 thousand workers.

The total value added by manufacture for the State amounted to $1,974 million in 1977, an increase of approximately 85 percent from the 1972 figure of $1,069 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were machinery, except electrical; primary metal industries; food and kindred products; and apparel and other textile products. They accounted for approximately 45 percent of the State's 1977 employment. The order has shifted from 1972 when industry groups food and kindred products; transportation equipment; machinery, except electrical; and apparel and other textile products accounted for approximately 42 percent of the State's employment.

The most important counties in the State ranked by employment were Salt Lake, Utah, Weber, and Cache. They accounted for approximately 84 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Salt Lake, Utah, Weber, and Box Elder accounted for approximately 85 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 6 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Utah:						
1977	70.2	867.2	67.9	834.8	2.1	32.4
1972	56.6	486.2	53.7	452.9	2.9	33.3
1967	47.0	314.9	46.4	310.2	.6	4.7
1963	53.5	328.2	52.6	320.2	.9	3.1
STANDARD METROPOLITAN STATISTICAL AREAS						
Provo-Orem:						
1977	10.2	161.4	10.2	161.4	(Z)	(Z)
1972	8.6	86.2	8.6	86.2	(Z)	(Z)
1967	7.9	59.2	7.9	59.2	-	-
1963	6.9	48.9	6.9	48.9	-	-
Salt Lake City-Ogden:						
1977	49.1	580.9	47.0	549.2	2.1	31.7
1972	39.2	332.9	36.5	301.0	2.7	31.9
1967	32.4	213.6	(D)	(D)	(D)	(D)
1963	36.4	215.5	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
	UTAH														
1977 CENSUS.	1 748	494	70.2	867.2	48.8	92.3	522.3	1 974.0	3 172.9	5 092.8	393.6	.36	100	100	19 596.9
1976 ASM....	(NA)	(NA)	71.2	779.4	47.9	89.3	463.5	1 708.7	2 964.9	4 640.6	141.9	.38	101	96	18 753.0
1975 ASM....	(NA)	(NA)	65.1	668.9	45.6	85.2	404.4	1 378.8	2 768.7	4 131.2	131.6	.36	93	94	18 302.2
1974 ASM....	(NA)	(NA)	66.0	614.9	46.8	88.0	377.5	1 482.7	2 651.2	4 053.8	144.8	.33	94	102	19 844.8
1973 ASM....	(NA)	(NA)	61.7	538.6	43.0	81.3	325.1	1 238.0	1 892.1	3 124.8	70.8	.31	88	102	19 897.9
1972 CENSUS.	1 358	430	56.6	486.2	38.8	73.7	286.9	1 068.7	1 584.9	2 632.0	67.9	.30	81	98	19 028.7
1971 ASM....	(NA)	(NA)	49.5	391.4	33.5	63.3	223.0	864.2	1 388.1	2 257.9	71.9	.27	70	94	18 363.1
1970 ASM....	(NA)	(NA)	51.1	376.3	34.8	66.5	216.7	989.9	1 465.9	2 428.7	58.3	.27	73	99	19 217.2
1969 ASM....	(NA)	(NA)	50.0	353.5	34.8	67.9	212.5	1 054.6	1 071.0	2 122.6	50.7	.25	71	103	20 035.5
1968 ASM....	(NA)	(NA)	47.8	331.3	32.8	63.9	195.1	826.6	990.5	1 819.0	39.0	.24	68	100	19 527.6
1967 CENSUS.	1 124	353	47.0	314.9	31.7	62.3	182.7	777.9	911.2	1 672.8	59.2	.24	67	99	19 323.2
1966 ASM....	(NA)	(NA)	47.2	311.2	31.7	63.5	184.4	699.4	1 038.0	1 736.6	53.1	.25	67	98	19 024.5
1965 ASM....	(NA)	(NA)	47.7	305.1	31.1	61.7	176.4	693.2	995.8	1 691.7	25.1	.26	68	92	18 010.2
1964 ASM....	(NA)	(NA)	51.5	318.1	33.2	66.5	182.1	668.0	960.0	1 610.8	23.0	.30	73	89	17 268.5
1963 CENSUS.	1 110	336	53.5	328.2	33.4	67.0	182.0	710.6	(NA)	(NA)	29.6	.32	76	87	16 958.4
	SALT LAKE CITY-OGDEN SMSA														
1977 CENSUS.	1 213	368	49.1	580.9	32.7	61.7	324.6	1 391.5	2 298.5	3 650.8	342.3	.25	100	100	19 596.9
1976 ASM....	(NA)	(NA)	50.7	526.7	32.0	58.5	286.7	1 171.8	2 167.2	3 312.1	88.7	.27	103	96	18 753.0
1975 ASM....	(NA)	(NA)	45.6	456.7	30.7	57.1	261.4	1 010.8	2 013.5	3 005.7	88.0	.25	93	94	18 302.2
1974 ASM....	(NA)	(NA)	45.6	413.5	30.8	58.0	238.1	1 030.2	2 041.9	3 003.5	74.5	.23	93	102	19 844.8
1973 ASM....	(NA)	(NA)	42.6	368.4	28.0	53.2	207.4	866.8	1 453.9	2 296.3	49.9	.21	87	102	19 897.9
1972 CENSUS.	955	331	39.2	332.9	25.3	48.5	180.7	684.9	1 201.1	1 876.1	45.1	.21	80	98	19 028.7

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includea SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	UTAH								
1977 CENSUS	12 348	69	1 893	5.66	62	79	28 108	44	21.39
1976 ASM	10 947	67	1 864	5.19	64	81	23 999	46	19.13
1975 ASM	10 275	70	1 868	4.75	67	83	21 180	49	16.18
1974 ASM	9 317	71	1 880	4.29	65	81	22 465	41	16.85
1973 ASM	8 729	70	1 891	4.00	61	78	20 065	44	15.23
1972 CENSUS	8 590	69	1 899	3.89	60	79	18 882	45	14.50
1971 ASM	7 907	68	1 890	3.52	61	79	17 459	45	13.65
1970 ASM	7 364	68	1 911	3.26	60	76	19 372	38	14.89
1969 ASM	7 070	70	1 951	3.13	50	67	21 092	34	15.53
1968 ASM	6 931	69	1 948	3.05	54	73	17 293	40	12.94
1967 CENSUS	6 700	67	1 965	2.93	54	73	16 551	40	12.49
1966 ASM	6 593	67	2 003	2.90	60	78	14 818	44	11.01
1965 ASM	6 396	65	1 984	2.86	59	77	14 532	44	11.24
1964 ASM	6 177	64	2 003	2.74	60	79	12 971	48	10.05
1963 CENSUS	6 135	62	2 006	2.72	(NA)	(NA)	13 282	46	10.61
	SALT LAKE CITY-OGDEN SMSA								
1977 CENSUS	11 830	67	1 889	5.26	63	79	28 340	42	22.54
1976 ASM	10 389	63	1 828	4.90	65	81	23 112	45	20.03
1975 ASM	10 015	67	1 860	4.58	67	82	22 167	45	17.70
1974 ASM	9 068	68	1 883	4.11	68	82	22 592	40	17.76
1973 ASM	8 648	66	1 900	3.90	63	79	20 347	43	16.29
1972 CENSUS	8 492	65	1 917	3.73	64	82	17 472	49	14.12

Note: For qualificationa to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	1 748	1 358
With 1 to 19 employees	do	1 254	928
With 20 to 99 employees	do	347	311
With 100 employees or more	do	147	119
All employees, average for year[1]	1,000	70.2	56.6
Payroll for year, all employees[1]	mil. dollars	867.2	486.2
Production workers:			
Average for year	1,000	48.8	38.8
March	do	46.8	37.4
May	do	48.3	38.3
August	do	49.9	39.6
November	do	49.8	39.8
Hours	millions	92.3	73.7
January to March	do	22.3	17.7
April to June	do	23.2	18.3
July to September	do	23.3	18.6
October to December	do	23.5	19.0
Wages	mil. dollars	522.3	286.9
Cost of materials, etc.[2]	do	3 172.9	1 584.9
Materials, parts, containers, etc., consumed	do	2 826.3	1 430.9
Resales	do	186.9	78.1
Fuels consumed	do	68.4	20.1
Purchased electric energy	do	40.0	15.5
Contract work	do	51.3	40.3
Value of shipments, including resales[2]	do	5 092.8	2 632.0
Value of resales	do	223.3	93.8
Value added by manufacture	do	1 974.0	1 068.7
Manufacturers' inventories:			
Beginning of year	do	627.5	303.4
Finished products	do	178.1	83.8
Work in process	do	227.7	120.7
Materials, supplies, fuel, etc.	do	221.6	99.0
End of year	do	701.7	315.7
Finished products	do	228.8	88.6
Work in process	do	230.0	123.7
Materials, supplies, fuel, etc.	do	243.0	103.5
Capital expenditures for plant and equipment	do	404.7	72.4
New capital expenditures	do	393.6	67.9
New buildings and other structures	do	55.3	15.5
New machinery and equipment	do	338.3	52.4
Used capital expenditures	do	11.1	4.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	1,433.9	1
New capital expenditures	387.7	3
Used capital expenditures	(10.0)	17
Retirements	(40.7)	19
End of year	1,790.8	1
Buildings and other structures:		
Beginning of year	334.9	4
New capital expenditures	(58.0)	17
Used capital expenditures	1.7	14
Retirements	(13.2)	41
End of year	381.5	2
Machinery and equipment:		
Beginning of year	1,098.9	2
New capital expenditures	329.7	2
Automobiles, trucks, etc., for highway use	6.4	(NA)
Computers and peripheral data processing equip.	1.2	(NA)
All other	306.7	(NA)
New machinery and equipment, n.s.k.	15.3	(NA)
Used capital expenditures	8.3	20
Retirements	27.6	11
End of year	1,409.3	1

Item	Amount (million dollars)	Standard error of estimate (percent)
Rental payments:		
Total	22.5	8
Buildings and other structures	(10.9)	15
Machinery and equipment	11.6	9
Depreciation charges during 1977:		
Total	89.3	3
Buildings and other structures	14.6	7
Machinery and equipment	74.7	3
Supplemental labor costs:		
Total	149.2	2
Legal costs	61.1	2
Voluntary costs	88.1	2
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	(6.2)	22
Response coverage ratio (percent)	60	(X)
Machinery	37.0	14
Response coverage ratio (percent)	59	(X)
Cost of purchased communication services	(10.4)	21
Response coverage ratio (percent)	64	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Utah	-	**1 748**	**494**	**70.2**	**867.2**	**48.8**	**92.3**	**522.3**	**1 974.0**	**3 172.9**	**5 092.8**	**393.6**	**58.6**	**1 068.7**
STANDARD METROPOLITAN STATISTICAL AREAS														
Provo-Orem	-	198	49	10.2	161.4	8.1	15.4	121.4	308.5	423.6	724.1	27.4	8.6	225.7
Salt Lake City-Ogden	-	1 213	368	49.1	580.9	32.7	61.7	324.6	1 391.5	2 298.5	3 650.8	342.3	39.2	684.9
COUNTIES														
Beaver	E2	8	1	0.1	0.5	0.1	0.1	0.5	1.1	0.9	2.0	(Z)	0.1	0.5
Box Elder	-	37	7	3.5	55.7	1.8	4.1	24.8	97.3	85.8	179.7	(D)	3.2	75.6
Cache	-	75	23	3.6	33.8	3.0	5.4	25.1	84.6	245.3	326.2	6.8	2.2	37.9
Carbon	E5	15	3	0.3	2.6	0.2	0.4	1.8	5.0	4.3	9.2	0.3	0.2	2.2
Davis	-	105	30	3.2	39.0	2.3	4.3	23.3	116.1	342.0	456.4	(D)	2.0	48.7
Duchesne	-	16	2	0.1	1.5	0.1	0.2	1.2	4.9	20.1	25.0	(D)	0.1	0.5
Emery	E4	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Garfield	-	9	3	0.2	1.7	0.2	0.3	1.4	4.2	2.4	6.3	(D)	(D)	(D)
Grand	E5	8	-	(Z)	0.2	(Z)	(Z)	0.1	0.6	0.3	0.9	(Z)	0.1	0.1
Iron	-	22	4	0.4	4.1	0.4	0.7	3.1	10.2	14.5	24.6	0.8	0.3	4.0
Juab	-	9	3	0.4	3.6	0.3	0.6	2.9	7.8	9.1	17.3	0.1	0.1	1.8
Kane	E5	4	1	0.1	0.3	0.1	0.1	0.3	0.5	0.2	0.7	(Z)	(D)	(D)
Millard	E1	9	2	0.2	1.4	0.2	0.3	1.1	5.8	3.8	9.6	(D)	0.1	0.6
Morgan	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Piute	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Rich	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Salt Lake	-	955	283	39.2	464.6	25.5	47.6	250.0	1 125.5	1 696.4	2 792.7	282.8	32.5	553.7
San Juan	E4	7	5	0.1	1.3	0.1	0.2	1.0	2.8	3.3	6.4	0.2	(D)	(D)
Sanpete	-	18	4	0.3	2.5	0.3	0.5	1.9	6.7	21.5	28.0	0.2	0.7	7.8
Sevier	E1	23	7	0.4	4.7	0.4	0.7	3.3	10.7	12.8	24.0	0.7	0.4	6.3
Summit	E4	10	1	0.1	0.6	0.1	0.1	0.5	1.7	1.3	2.9	0.1	0.1	0.8
Tooele	-	11	6	1.0	13.7	0.8	1.9	11.0	9.5	36.6	43.5	(D)	0.2	2.3
Uintah	E3	16	4	0.2	2.0	0.2	0.3	1.2	4.0	3.0	7.0	0.4	0.3	4.1
Utah	-	198	49	10.2	161.4	8.1	15.4	121.4	308.5	423.6	724.1	27.4	8.6	225.7
Wasatch	E1	18	1	0.1	0.9	0.1	0.1	0.6	3.7	3.4	7.1	0.2	0.1	0.6
Washington	-	22	3	0.4	3.6	0.3	0.6	2.5	8.6	9.5	17.7	1.8	0.3	2.7
Wayne	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Weber	E1	142	49	5.8	63.6	4.1	7.9	40.3	140.4	223.4	358.3	8.7	4.4	80.2
CITIES														
Brigham City	E4	24	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clearfield	-	28	11	1.3	13.6	1.0	2.0	9.8	58.1	53.8	105.6	(D)	1.2	25.7
Logan	-	45	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Murray	-	50	18	2.5	23.0	2.0	3.5	14.2	39.1	59.5	97.1	2.6	1.3	20.8
Ogden	-	103	41	4.8	52.2	3.4	6.5	33.0	116.9	203.5	317.1	6.8	3.7	64.2
Orem	E5	30	4	0.9	8.2	0.7	1.4	5.5	15.6	11.5	26.8	1.8	0.7	8.2
Pleasant Grove	-	14	5	0.5	4.2	0.4	0.7	2.9	9.0	11.9	21.1	0.6	0.5	5.5
Provo	E1	71	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Salt Lake City	-	476	152	22.3	267.3	13.5	25.5	135.6	683.5	824.5	1 488.5	43.8	22.8	362.1
Sandy City	-	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Salt Lake	E1	96	26	2.0	20.1	1.6	2.8	12.9	43.3	50.0	93.1	2.1	2.0	33.5
West Jordan	E1	16	7	0.8	7.0	0.7	1.6	5.0	9.2	35.5	48.5	(D)	0.6	11.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	–	**1 748**	**494**	**70.2**	**867.2**	**48.8**	**92.3**	**522.3**	**1 974.0**	**3 172.9**	**5 092.8**	**393.6**	**56.6**	**1 068.7**
20	**Food and kindred products**	–	**201**	**68**	**6.8**	**71.0**	**4.8**	**9.0**	**43.8**	**198.0**	566.6	**758.0**	**(D)**	**7.0**	**142.9**
201	Meat products	E1	38	12	0.9	8.2	0.7	1.3	6.4	22.5	114.9	137.9	1.5	1.2	35.6
2011	Meat packing plants	–	32	8	0.7	7.1	0.6	1.1	5.7	21.5	105.9	127.3	(D)	0.8	33.0
202	Dairy products	–	35	12	1.9	18.8	1.3	2.5	13.0	45.0	225.7	267.0	7.3	1.9	40.1
2022	Cheese, natural and processed	–	10	4	0.9	8.4	0.8	1.6	7.3	19.2	116.2	131.6	(D)	CC	(D)
2024	Ice cream and frozen desserts	–	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.3
2026	Fluid milk	–	18	5	0.8	8.9	0.4	0.8	4.8	22.7	99.4	122.1	(D)	1.1	24.5
203	Preserved fruits and vegetables	E1	14	3	0.5	4.7	0.4	0.8	3.5	15.6	18.2	33.8	(D)	0.3	3.4
2038	Frozen specialties	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
204	Grain mill products	E1	30	8	0.6	7.7	0.4	0.8	4.8	27.1	99.7	126.8	(D)	0.5	18.6
2041	Flour and other grain mill products	E1	13	3	0.3	4.7	0.2	0.5	3.3	15.6	61.5	76.9	(D)	BB	(D)
2048	Prepared feeds, n.e.c.	E3	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
205	Bakery products	–	19	10	1.0	10.9	0.7	1.2	6.6	27.9	23.5	51.3	(D)	1.0	13.5
2051	Bread, cake, and related products	–	16	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
206	Sugar and confectionery products	E2	18	5	0.5	5.3	0.4	0.9	3.7	13.3	17.7	28.2	0.5	0.8	11.1
2063	Beet sugar	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2065	Confectionery products	E5	16	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
208	Beverages	E1	23	12	0.8	9.8	0.4	0.7	2.8	30.4	44.5	74.6	3.7	0.7	11.5
2086	Bottled and canned soft drinks	E1	23	12	0.8	9.8	0.4	0.7	2.8	30.4	44.5	74.6	3.7	0.7	11.5
209	Miscellaneous foods and kindred products	E1	18	4	0.6	4.3	0.4	0.6	2.2	11.7	11.9	23.5	0.9	0.5	6.9
2099	Food preparations, n.e.c.	E1	13	4	0.5	4.1	0.4	0.6	2.1	11.3	11.5	22.6	(D)	0.4	6.5
22	**Textile mill products**	–	**8**	**2**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**BB**	**(D)**
225	Knitting mills	–	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2254	Knit underwear mills	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
23	**Apparel and other textile products**	–	**101**	**51**	**6.0**	**36.4**	**5.3**	**9.0**	**29.3**	**65.1**	**67.4**	**130.6**	**1.7**	**FF**	**(D)**
232	Men's and boys' furnishings	E1	21	15	1.6	8.7	1.5	2.5	7.1	15.5	12.0	26.9	(D)	EE	(D)
2321	Men's and boys' shirts and nightwear	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2327	Men's and boys' separate trousers	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c.	E1	16	11	1.1	5.7	1.0	1.7	4.9	10.7	7.7	17.8	(D)	CC	(D)
233	Women's and misses' outerwear	–	30	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	12.1
2331	Women's and misses' blouses and waists	–	12	12	1.8	11.1	1.7	2.9	9.5	17.4	27.3	44.3	0.3	CC	(D)
2337	Women's and misses' suits and coats	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	–	6	3	0.2	1.4	0.2	0.3	1.2	2.3	2.4	4.5	0.1	AA	(D)
234	Women's and children's undergarments	–	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2341	Women's and children's underwear	–	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
236	Children's outerwear	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2369	Children's outerwear, n.e.c.	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	–	41	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	7.2
2391	Curtains and draperies	E1	18	3	0.2	1.1	0.2	0.2	0.7	1.6	2.2	3.7	0.1	0.2	1.3
2399	Fabricated textile products, n.e.c.	–	6	4	0.4	2.8	0.4	0.6	2.4	7.6	10.0	17.1	(D)	CC	(D)
24	**Lumber and wood products**	**E1**	**146**	**31**	**3.0**	**26.9**	**2.4**	**4.7**	**20.1**	**54.8**	**68.5**	**122.3**	**6.4**	**2.1**	**25.6**
242	Sawmills and planing mills	E1	40	7	0.4	3.4	0.4	0.7	2.8	9.0	7.9	17.0	0.9	0.6	8.5
2421	Sawmills and planing mills, general	E1	35	7	0.4	3.3	0.4	0.7	2.7	8.8	7.6	16.5	0.9	CC	(D)
243	Millwork, plywood, and structural members	E2	65	16	1.1	9.9	0.9	1.6	7.1	19.8	19.4	38.8	1.3	0.7	7.3
2431	Millwork	–	17	4	0.3	2.2	0.2	0.4	1.6	3.1	5.8	8.6	0.1	0.3	2.5
2434	Wood kitchen cabinets	E4	39	10	0.7	6.6	0.6	1.0	4.7	11.0	9.3	20.3	0.9	0.4	4.2
245	Wood buildings and mobile homes	–	13	6	1.3	12.2	0.9	2.0	9.1	22.0	38.7	59.9	(D)	CC	(D)
2452	Prefabricated wood buildings	–	12	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
25	**Furniture and fixtures**	**E1**	**67**	**20**	**1.3**	**12.3**	**1.0**	**1.9**	**8.0**	**24.9**	**22.3**	**46.6**	**3.3**	**1.1**	**11.8**
251	Household furniture	E2	38	10	0.6	5.4	0.5	0.9	3.6	10.8	9.5	20.4	(D)	0.7	7.0
2512	Upholstered household furniture	–	11	4	0.3	2.7	0.3	0.5	1.8	5.1	3.1	8.3	(D)	0.4	3.2
2515	Mattresses and bedsprings	E3	6	4	0.2	1.8	0.1	0.3	1.2	3.5	4.6	8.1	(D)	AA	(D)
254	Partitions and fixtures	E1	20	7	0.4	5.3	0.3	0.7	3.4	9.9	8.3	18.0	(D)	0.2	2.2
2541	Wood partitions and fixtures	E1	17	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
259	Miscellaneous furniture and fixtures	–	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2591	Drapery hardware and blinds and shades	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
26	**Paper and allied products**	**–**	**19**	**9**	**0.8**	**9.2**	**0.7**	**1.3**	**6.7**	**18.6**	**30.4**	**49.5**	**1.5**	**BB**	**(D)**
264	Miscellaneous converted paper products	–	12	5	0.6	5.9	0.5	0.9	4.5	11.8	20.4	32.9	0.7	AA	(D)
2643	Bags, except textile bags	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
265	Paperboard containers and boxes	–	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
27	**Printing and publishing**	**–**	**249**	**37**	**4.6**	**49.7**	**2.8**	**4.9**	**27.3**	**111.3**	**60.4**	**171.5**	**6.7**	**3.7**	**48.0**
2711	Newspapers	–	45	11	1.8	19.1	0.6	1.1	7.0	44.6	16.2	60.7	2.7	1.1	20.2
273	Books	E1	21	2	0.2	2.1	0.1	0.2	1.3	4.7	5.6	10.3	0.4	(NA)	(NA)
2732	Book printing	–	10	2	0.2	1.8	0.1	0.2	1.2	3.5	5.1	8.6	0.4	(NA)	(NA)
2741	Miscellaneous publishing	–	10	2	0.2	1.8	0.1	0.1	0.5	6.4	1.9	8.3	(D)	(NA)	(NA)
275	Commercial printing	E2	129	12	1.2	12.9	0.9	1.6	8.8	21.2	18.9	39.8	1.2	1.6	6.6
2751	Commercial printing, letterpress	E7	65	1	0.2	1.9	0.2	0.2	1.3	3.8	2.5	6.3	0.2	EE	(D)
2752	Commercial printing, lithographic	E1	56	11	0.9	10.6	0.7	1.3	7.2	16.6	16.1	32.3	0.9	0.4	5.9
2761	Manifold business forms	–	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	12.5
278	Blankbooks and bookbinding	–	9	3	0.6	6.3	0.5	1.0	4.3	10.0	7.4	17.4	0.5	AA	(D)
2782	Blankbooks and looseleaf binders	–	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
279	Printing trade services	E3	22	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
28	**Chemicals and allied products**	**E2**	**62**	**14**	**1.8**	**21.1**	**1.3**	**2.5**	**13.1**	**62.8**	**65.3**	**126.0**	**18.2**	**1.4**	**30.0**
281	Industrial inorganic chemicals	E4	11	2	0.2	2.8	0.1	0.3	1.9	17.8	11.9	29.7	12.0	0.2	6.0
283	Drugs	–	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2834	Pharmaceutical preparations	–	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2851	Paints and allied products	–	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
287	Agricultural chemicals	E2	5	1	0.2	2.4	0.1	0.2	1.6	3.9	13.9	17.8	(D)	(NA)	(NA)
289	Miscellaneous chemical products	E1	23	6	0.4	5.3	0.4	0.7	4.0	13.0	16.5	29.4	1.9	0.3	6.2
2899	Chemical preparations, n.e.c.	E2	15	4	0.3	3.4	0.2	0.4	2.4	8.9	5.5	14.6	(D)	AA	(D)
29	**Petroleum and coal products**	**–**	**16**	**7**	**0.8**	**15.4**	**0.7**	**1.3**	**11.3**	**100.1**	**564.8**	**667.4**	**6.0**	**0.8**	**45.7**
2911	Petroleum refining	–	7	7	0.8	14.7	0.6	1.2	10.8	98.1	560.8	661.5	(D)	0.6	42.0
30	**Rubber and miscellaneous plastics products**	**E2**	**53**	**6**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**CC**	**(D)**
3041	Rubber and plastics hose and belting	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3079	Miscellaneous plastics products	E2	48	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
32	**Stone, clay, and glass products**	**E1**	**119**	**45**	**3.9**	**47.3**	**3.1**	**6.2**	**36.1**	**121.3**	**114.7**	**236.7**	**14.6**	**2.6**	**59.0**
3241	Cement, hydraulic	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
325	Structural clay products	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3251	Brick and structural clay tile	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
327	Concrete, gypsum, and plaster products	E1	83	33	2.6	32.0	2.1	4.2	25.0	75.8	81.0	156.6	9.9	1.6	35.1
3271	Concrete block and brick	–	11	5	0.3	2.7	0.2	0.4	1.7	5.5	6.8	12.2	0.6	AA	(D)
3272	Concrete products, n.e.c.	–	30	5	0.6	7.4	0.5	1.1	5.9	18.0	17.8	36.3	1.5	0.5	9.7
3273	Ready-mixed concrete	E2	36	18	1.4	18.0	1.1	2.2	14.2	40.6	44.4	84.5	6.0	0.7	18.1
3275	Gypsum products	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
329	Miscellaneous nonmetallic mineral products	–	14	5	0.6	6.5	0.5	0.9	4.4	15.5	11.5	28.0	1.1	0.4	6.3
3293	Gaskets, packing, and sealing devices	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
33	**Primary metal industries**	-	35	15	**FF**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**FF**	**(D)**
331	Blast furnace and basic steel products	-	4	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3312	Blast furnaces and steel mills	-	3	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
332	Iron and steel foundries	-	9	6	0.9	14.5	0.8	1.4	10.6	33.5	19.4	52.2	2.6	CC	(D)
3321	Gray iron foundries	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3325	Steel foundries, n.e.c.	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
333	Primary nonferrous metals	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3331	Primary copper	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3339	Primary nonferrous metals, n.e.c.	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
34	**Fabricated metal products**	**E1**	**164**	**55**	**4.4**	**54.5**	**3.3**	**6.2**	**35.3**	**130.5**	**124.0**	**249.7**	**(D)**	**3.5**	**69.3**
343	Plumbing and heating, except electric	E2	11	3	0.2	1.8	0.2	0.3	1.2	4.7	5.6	10.4	0.6	(NA)	(NA)
3433	Heating equipment, except electric	E3	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
344	Fabricated structural metal products	E1	90	39	3.0	38.0	2.3	4.2	24.6	84.0	82.7	164.8	(D)	2.5	57.1
3441	Fabricated structural metal	E1	31	18	1.5	18.2	1.2	2.3	12.9	30.9	39.4	69.9	2.4	1.1	24.7
3442	Metal doors, sash, and trim	-	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3443	Fabricated plate work (boiler shops)	-	15	10	0.8	11.3	0.6	1.0	6.7	32.8	23.9	55.7	0.8	0.6	17.5
349	Miscellaneous fabricated metal products	-	33	7	0.7	9.8	0.5	1.1	5.9	29.0	17.5	43.3	4.6	0.3	6.2
3494	Valves and pipe fittings	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3498	Fabricated pipe and fittings	-	6	2	0.3	3.6	0.2	0.3	2.3	13.1	7.7	18.7	(D)	(NA)	(NA)
3499	Fabricated metal products, n.e.c.	E3	20	3	0.2	2.1	0.2	0.3	1.4	3.7	3.9	7.5	0.2	(NA)	(NA)
35	**Machinery, except electrical**	-	193	48	8.9	116.0	5.3	10.5	57.2	312.0	255.7	556.7	23.3	5.8	115.9
353	Construction and related machinery	-	20	9	2.3	28.8	1.4	2.5	14.4	72.3	68.4	137.7	5.7	EE	(D)
3531	Construction machinery	E1	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3532	Mining machinery	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3534	Elevators and moving stairways	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3537	Industrial trucks and tractors	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
355	Special industry machinery	E1	10	4	0.3	3.3	0.2	0.3	1.8	6.2	3.1	9.4	(D)	AA	(D)
3551	Food products machinery	-	6	2	0.2	2.4	0.1	0.2	1.2	3.5	2.2	5.7	(D)	(NA)	(NA)
356	General industrial machinery	-	20	7	1.9	28.6	0.9	1.8	9.6	60.6	61.7	120.1	2.5	1.6	28.7
3561	Pumps and pumping equipment	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3567	Industrial furnaces and ovens	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3569	General industrial machinery, n.e.c.	-	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
357	Office and computing machines	-	8	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3573	Electronic computing equipment	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3574	Calculating and accounting machines	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
358	Refrigeration and service machinery	-	12	5	0.3	4.2	0.3	0.5	2.8	13.0	9.3	21.3	0.4	0.8	14.0
3585	Refrigeration and heating equipment	-	5	4	0.3	3.6	0.2	0.4	2.4	11.9	8.3	19.3	(D)	BB	(D)
359	Miscellaneous machinery, except electrical	E2	98	16	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.8
3599	Machinery, except electrical, n.e.c.	E2	98	16	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.8
36	**Electric and electronic equipment**	-	**73**	**20**	**4.5**	**53.8**	**3.1**	**6.0**	**30.3**	**136.1**	**66.7**	**192.9**	**(D)**	**3.3**	**52.8**
361	Electric distributing equipment	-	8	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3613	Switchgear and switchboard apparatus	-	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
363	Household appliances	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3639	Household appliances, n.e.c.	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
366	Communication equipment	-	15	8	2.4	33.9	1.6	3.0	17.8	99.3	33.1	125.6	(D)	2.2	30.6
3662	Radio and TV communication equipment	-	15	8	2.4	33.9	1.6	3.0	17.8	99.3	33.1	125.6	(D)	EE	(D)
367	Electronic components and accessories	-	26	4	1.2	11.9	1.0	1.9	8.3	20.3	9.8	29.6	(D)	CC	(D)
3671	Electron tubes, all types	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3674	Semiconductors and related devices	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
36	**Electric and electronic equipment—Con.**														
369	Miscellaneous electrical equipment and supplies	-	8	2	0.3	2.7	0.2	0.3	0.7	4.9	2.5	6.2	(D)	(NA)	(NA)
3693	X-ray, electromedical, and electrotherapeutic apparatus	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
37	**Transportation equipment**	-	**57**	**16**	**5.9**	**97.6**	**2.9**	**6.1**	**39.6**	**195.9**	**173.5**	**365.8**	**(D)**	**6.1**	**151.0**
371	Motor vehicles and equipment	-	27	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3711	Motor vehicles and car bodies	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories	-	17	5	0.5	5.0	0.4	0.8	4.0	32.6	19.2	48.9	(D)	0.2	12.9
3715	Truck trailers	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
376	Guidad missiles, spaca vehicles, parts	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3761	Guidad missiles and spaca vehicles	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3764	Spaca propulsion units and parts	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
379	Miscellaneous transportation equipment	E2	15	4	0.3	2.6	0.3	0.4	2.0	3.4	6.9	10.8	(D)	CC	(D)
3792	Travel trailers and campers	E1	9	3	0.3	1.9	0.2	0.4	1.4	2.3	5.9	8.8	(D)	0.4	3.5
38	**Instruments and related products**	-	**53**	**13**	**FF**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**0.3**	**4.5**
384	Medical instruments and supplies	-	25	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3841	Surgical and medical instruments	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3842	Surgical appliances and supplies	E1	15	3	0.3	2.5	0.2	0.4	1.2	4.4	3.1	7.3	(D)	(NA)	(NA)
39	**Miscellaneous manufacturing industries**	-	**81**	**14**	**2.1**	**16.0**	**1.6**	**2.8**	**11.0**	**26.8**	**39.9**	**66.9**	**0.7**	**1.4**	**18.4**
391	Jewelry, silverware, and plated ware	-	9	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3911	Jewelry, precious metal	-	8	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3931	Musical instruments	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
394	Toys and sporting goods	-	20	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3949	Sporting and athletic goods, n.e.c.	-	17	3	0.2	1.8	0.2	0.3	1.2	4.1	2.8	6.8	0.2	(NA)	(NA)
399	Miscellaneous manufactures	E1	41	7	0.5	4.9	0.4	0.8	3.2	7.8	6.0	13.7	(D)	0.6	8.9
3993	Signs and advertising displays	E1	15	3	0.3	3.1	0.2	0.4	1.9	4.6	2.6	7.1	(D)	0.4	6.7
3999	Manufacturing industries, n.e.c.	E2	24	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
--	**Administrative and auxiliary**	-	**46**	**22**	**2.1**	**32.4**	-	-	-	-	-	-	-	**(NA)**	**(NA)**

Nota: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Provo-Orem SMSA	-	**198**	**49**	**10.2**	**161.4**	8.1	**15.4**	**121.4**	**308.5**	**423.6**	**724.1**	**27.4**	8.6	**225.7**
	Salt Lake City-Ogden SMSA	-	**1 213**	**368**	**49.1**	**580.9**	**32.7**	**61.7**	**324.6**	**1 391.5**	**2 298.5**	**3 650.8**	**342.3**	**39.2**	**684.9**
20	Food and kindred products	-	117	53	4.3	45.9	2.7	5.1	25.7	136.2	304.9	440.8	(D)	5.1	107.9
2011	Meat packing plants	-	13	6	0.3	3.3	0.3	0.5	2.5	15.2	37.8	52.6	(D)	0.5	26.8
204	Grain mill products	E1	16	7	0.4	6.3	0.3	0.6	4.0	22.5	73.2	95.7	(D)	0.4	13.7
205	Bakery products	-	15	10	1.0	10.8	0.7	1.2	6.6	27.6	23.3	50.9	(D)	(NA)	(NA)
209	Miscellaneous foods and kindred products	E1	14	4	0.5	4.3	0.4	0.6	2.2	11.4	11.5	22.7	0.9	0.5	6.8
232	Men's and boys' furnishings	E1	5	4	0.5	2.5	0.4	0.7	2.1	4.0	1.1	5.1	(D)	(NA)	(NA)
234	Women's and children's undergarments	-	4	4	0.6	3.5	0.5	0.9	2.9	5.5	2.1	7.2	(D)	(NA)	(NA)
2341	Women's and children's underwear	-	4	4	0.6	3.5	0.5	0.9	2.9	5.5	2.1	7.2	(D)	(NA)	(NA)
24	Lumber and wood products	E1	79	22	2.3	21.1	1.7	3.6	15.7	40.5	53.3	92.8	5.1	1.4	15.8
243	Millwork, plywood, and structural members	E2	50	16	1.0	9.1	0.8	1.5	6.5	17.9	17.3	34.9	1.1	0.7	6.6
251	Household furniture	E2	28	9	0.5	5.0	0.5	0.8	3.2	9.9	8.9	18.8	(D)	0.7	6.7
27	Printing and publishing	-	174	26	3.7	40.5	2.1	3.8	21.7	83.6	47.9	131.3	5.0	3.2	36.4
278	Blankbooks and bookbinding	-	9	3	0.6	6.3	0.5	1.0	4.3	10.0	7.4	17.4	0.5	(NA)	(NA)
28	Chemicals and allied products	E3	50	11	1.6	18.5	1.1	2.1	11.0	51.3	52.3	101.6	13.3	1.2	24.9
32	Stone, clay, and glass products	-	67	27	2.7	31.3	2.2	4.3	24.4	75.7	73.3	149.3	9.9	1.8	38.2
327	Concrete, gypsum, and plaster products	-	43	18	1.7	20.8	1.4	2.8	17.0	47.7	51.0	98.4	6.0	1.0	22.6
3273	Ready-mixed concrete	E1	15	10	0.9	11.6	0.8	1.5	9.7	27.1	29.2	55.9	3.3	0.3	10.8
3498	Fabricated pipe and fittings	-	6	2	0.3	3.6	0.2	0.3	2.3	13.1	7.7	18.7	(D)	(NA)	(NA)
35	Machinery, except electrical	-	138	41	8.2	107.3	4.8	9.6	52.2	295.9	238.0	522.9	22.1	5.2	108.2
353	Construction and related machinery	-	16	6	1.9	24.7	1.2	2.1	12.6	66.8	57.9	121.8	(D)	(NA)	(NA)
3585	Refrigeration and heating equipment	-	4	4	0.3	3.6	0.2	0.4	2.4	11.9	8.3	19.3	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	62	18	3.8	48.7	2.6	5.0	26.9	127.7	64.6	182.6	(D)	3.1	50.6
3842	Surgical appliances and supplies	E1	15	3	0.3	2.5	0.2	0.4	1.2	4.4	3.1	7.3	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	57	9	1.2	9.7	0.9	1.6	6.2	14.7	26.3	41.5	0.4	1.0	14.2
--	Administrative and auxiliary	-	41	21	2.1	31.7	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Box Elder County	-	37	7	3.5	55.7	1.8	4.1	24.8	97.3	85.8	179.7	(D)	3.2	75.6
	Cache County	-	75	23	3.6	33.8	3.0	5.4	25.1	84.6	245.3	328.2	6.8	2.2	37.9
20	Food and kindred products	-	25	9	1.8	17.0	1.5	3.0	13.8	42.7	203.5	242.5	5.1	1.0	19.0
202	Dairy products	-	7	4	0.9	8.4	0.8	1.6	7.2	19.1	114.0	129.3	(D)	0.6	10.8
	Davis County	-	105	30	3.2	39.0	2.3	4.3	23.3	116.1	342.0	456.4	(D)	2.0	48.7
35	Machinery, except electrical	-	13	4	0.6	8.9	0.4	0.8	3.7	24.7	28.9	53.0	(D)	(NA)	(NA)
	Salt Lake County	-	955	283	39.2	464.6	25.5	47.6	250.0	1 125.5	1 896.4	2 792.7	282.8	32.5	553.7
20	Food and kindred products	-	88	39	3.0	31.0	1.9	3.5	16.7	94.5	186.8	281.2	(D)	3.5	73.5
202	Dairy products	-	15	6	0.6	7.3	0.3	0.6	3.5	17.9	65.3	83.2	(D)	(NA)	(NA)
2026	Fluid milk	-	8	4	0.5	6.0	0.2	0.4	2.7	15.1	56.3	71.4	(D)	(NA)	(NA)
2051	Bread, cake, and related products	-	8	6	0.5	5.8	0.3	0.6	3.5	14.7	12.9	27.7	0.9	(NA)	(NA)
232	Men's and boys' furnishings	E1	5	4	0.5	2.5	0.4	0.7	2.1	4.0	1.1	5.1	(D)	(NA)	(NA)
24	Lumber and wood products	E1	65	16	1.9	16.2	1.4	2.8	12.7	34.2	42.3	75.5	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members	E2	44	13	0.9	8.4	0.8	1.4	6.0	17.0	16.0	32.6	(D)	(NA)	(NA)
2434	Wood kitchen cabinets	E4	26	7	0.6	5.7	0.5	0.9	4.0	9.5	7.7	17.2	0.7	(NA)	(NA)
245	Wood buildings and mobile homes	-	8	3	0.9	7.2	0.6	1.3	6.2	16.1	25.0	40.5	(D)	(NA)	(NA)
2452	Prefabricated wood buildings	-	8	3	0.9	7.2	0.6	1.3	6.2	16.1	25.0	40.5	(D)	(NA)	(NA)
27	Printing and publishing	-	136	20	3.0	33.8	1.8	3.3	18.6	62.7	40.9	103.3	3.7	2.7	23.8
28	Chemicals and allied products	E3	37	7	0.8	10.4	0.4	0.8	5.4	29.7	40.9	70.5	10.3	0.6	13.7
32	Stone, clay, and glass products	-	51	18	2.0	22.0	1.6	3.0	16.5	51.6	50.0	102.0	(D)	1.5	28.7
327	Concrete, gypsum, and plaster products	E1	31	10	1.0	12.1	0.8	1.5	9.6	24.9	28.3	53.0	3.3	0.7	13.8
3273	Ready-mixed concrete	E1	11	7	0.6	7.7	0.5	0.9	6.3	18.4	20.5	38.7	2.9	(NA)	(NA)
34	Fabricated metal products	E1	102	34	2.6	33.3	1.9	3.5	20.8	76.0	71.0	145.4	(D)	1.8	30.5
344	Fabricated structural metal products	-	56	28	2.0	27.2	1.5	2.7	16.9	62.9	57.4	118.8	(D)	1.5	26.4
35	Machinery, except electrical	-	115	33	6.9	90.6	4.0	7.9	43.7	251.4	198.7	442.2	20.7	4.9	102.3
356	General industrial machinery	-	16	5	1.6	25.6	0.7	1.3	7.9	51.0	56.1	106.8	(D)	(NA)	(NA)
366	Communication equipment	-	12	7	2.4	33.6	1.6	3.0	17.7	98.9	32.6	125.0	1.5	2.1	29.7
3662	Radio and TV communication equipment	-	12	7	2.4	33.6	1.6	3.0	17.7	98.9	32.6	125.0	1.5	(NA)	(NA)
37	Transportation equipment	-	34	9	1.9	33.2	0.7	1.3	8.5	64.8	32.7	96.8	(D)	3.1	70.1
39	Miscellaneous manufacturing industries	-	41	6	1.1	8.3	0.8	1.4	5.2	12.0	23.8	36.5	0.2	(NA)	(NA)
--	Administrative and auxiliary	-	28	16	1.8	27.4	-	-	-	-	-	-	-	(NA)	(NA)
	Tooele County	-	11	6	1.0	13.7	0.8	1.9	11.0	9.5	36.6	43.5	(D)	0.2	2.3
	Utah County (Coextensive with Provo-Orem, Utah, SMSA; see table 6.)														
	Weber County	-	142	49	5.8	63.8	4.1	7.9	40.3	140.4	223.4	358.3	8.7	4.4	80.2
23	Apparel and other textile products	-	7	3	0.5	2.6	0.5	0.8	2.3	4.2	1.5	5.3	(D)	(NA)	(NA)
27	Printing and publishing	-	23	4	0.5	5.2	0.2	0.4	2.3	17.7	5.4	23.2	1.2	(NA)	(NA)
32	Stone, clay, and glass products	-	7	4	0.5	6.0	0.4	0.9	5.0	15.4	12.7	28.2	1.1	(NA)	(NA)
34	Fabricated metal products	E1	17	6	0.5	5.0	0.5	0.7	4.0	10.0	16.6	26.8	0.5	0.6	11.3

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Clearfield	-	28	11	1.3	13.6	1.0	2.0	9.6	58.1	53.8	105.8	(D)	1.2	25.7
	Murray	-	50	18	2.5	23.0	2.0	3.5	14.2	39.1	59.5	97.1	2.8	1.3	20.8
	Ogden	-	103	41	4.8	52.2	3.4	8.5	33.0	118.9	203.5	317.1	8.8	3.7	64.2
20	Food and kindred products	-	16	12	1.0	12.6	0.7	1.4	8.0	35.1	110.4	145.4	2.6	1.3	26.8
	Orem	-	30	4	0.9	8.2	0.7	1.4	5.5	15.6	11.5	28.8	1.8	0.7	8.2
	Pleasant Grove	-	14	5	0.5	4.2	0.4	0.7	2.9	9.0	11.9	21.1	0.8	0.5	5.5
	Salt Lake City	-	478	152	22.3	287.3	13.5	25.5	135.6	663.5	824.5	1 488.5	43.8	22.8	362.1
20	Food and kindred products	-	44	16	1.6	18.0	1.0	1.9	9.1	55.5	83.8	139.4	(D)	2.2	47.5
25	Furniture and fixtures	-	21	8	0.5	5.9	0.4	0.8	3.7	10.4	7.8	18.1	(D)	0.5	6.2
34	Fabricated metal products	-	50	22	1.9	24.3	1.4	2.5	14.7	59.5	52.7	111.5	(D)	1.5	25.5
344	Fabricated structural metal products	-	29	16	1.5	20.3	1.1	2.0	12.1	51.3	44.4	94.9	(D)	(NA)	(NA)
356	General industrial machinery	-	11	5	1.6	25.2	0.7	1.3	7.8	50.2	55.6	105.5	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	23	8	2.5	31.7	1.6	3.1	16.9	87.7	30.8	114.8	(D)	2.0	23.4
--	Administrative and auxiliary	-	20	13	1.6	25.0	-	-	-	-	-	-	-	(NA)	(NA)
	South Salt Lake	-	96	28	2.0	20.1	1.6	2.8	12.9	43.3	50.0	93.1	2.1	2.0	33.5
	West Jordan	-	16	7	0.8	7.0	0.7	1.6	5.0	9.2	35.5	48.5	(D)	0.6	11.1

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
UTAH	1748	201	-	8	101	146	67	19	249	62	16	53	5	119	35	164	193	73	57	53	81	46
1 TO 4 EMPLOYEES	787	81	-	4	34	70	30	6	146	23	4	24	2	51	12	60	89	38	23	28	51	11
5 TO 9 EMPLOYEES	253	29	-	2	6	28	9	2	24	16	2	11	-	13	5	22	37	9	12	9	10	7
10 TO 19 EMPLOYEES	214	23	-	-	10	17	8	2	42	9	3	12	2	10	3	27	19	6	6	3	6	6
20 TO 49 EMPLOYEES	231	29	-	1	17	17	10	4	21	4	1	3	1	22	6	29	27	8	6	7	6	12
50 TO 99 EMPLOYEES	116	17	-	-	13	6	9	2	5	6	2	2	-	12	3	15	7	1	3	3	4	6
100 TO 249 EMPLOYEES	100	19	-	-	16	6	1	3	8	3	4	1	-	9	1	11	5	5	2	1	2	3
250 TO 499 EMPLOYEES	26	3	-	1	4	2	-	-	2	-	-	-	-	2	1	-	6	2	3	-	-	-
500 TO 999 EMPLOYEES	13	-	-	-	1	-	-	-	1	1	-	-	-	-	2	-	1	4	-	-	2	1
1000 TO 2499 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	1	2	-	-
2500 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
BEAVER COUNTY	8	1	-	-	2	1	-	-	2	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	1	1	-	-	2	-	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BOX ELDER COUNTY	37	9	-	2	5	4	-	2	2	-	-	1	-	3	-	1	4	1	1	1	1	-
1 TO 19 EMPLOYEES	30	8	-	2	3	3	-	2	1	-	-	1	-	2	-	1	4	1	-	1	1	-
20 TO 99 EMPLOYEES	3	-	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
CACHE COUNTY	75	25	-	-	5	4	4	1	11	3	-	1	-	4	1	3	8	-	1	2	2	-
1 TO 19 EMPLOYEES	52	16	-	-	2	4	4	-	7	3	-	1	-	4	1	2	6	-	1	1	-	-
20 TO 99 EMPLOYEES	11	2	-	-	2	-	-	-	3	-	-	-	-	-	-	1	1	-	-	1	1	-
100 TO 249 EMPLOYEES	8	4	-	-	1	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
CARBON COUNTY	15	3	-	-	1	1	-	-	3	1	-	-	-	2	-	-	3	-	-	-	-	1
1 TO 19 EMPLOYEES	12	3	-	-	-	1	-	-	2	1	-	-	-	2	-	-	2	-	-	-	-	1
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAVIS COUNTY	105	6	-	-	4	5	5	4	14	3	9	6	1	6	1	9	13	2	6	3	2	6
1 TO 19 EMPLOYEES	75	5	-	-	4	4	4	2	12	2	5	6	1	3	1	5	9	1	4	2	1	4
20 TO 99 EMPLOYEES	21	-	-	-	-	1	1	2	2	1	2	-	-	3	-	2	3	-	-	1	1	2
100 TO 249 EMPLOYEES	6	1	-	-	-	-	-	-	-	-	2	-	-	-	-	2	-	1	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-
DUCHESNE COUNTY	16	2	-	-	-	4	-	-	2	-	1	-	-	3	-	-	3	-	-	-	-	1
1 TO 19 EMPLOYEES	14	2	-	-	-	4	-	-	2	-	-	-	-	2	-	-	3	-	-	-	-	1
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-
EMERY COUNTY	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
GARFIELD COUNTY	9	-	-	-	-	7	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	4	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAND COUNTY	8	-	-	-	1	1	-	-	3	1	-	-	-	-	-	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES	8	-	-	-	1	1	-	-	3	1	-	-	-	-	-	-	1	-	-	-	1	-
IRON COUNTY	22	4	-	-	1	3	2	-	4	-	-	-	-	2	-	-	3	-	1	1	1	-
1 TO 19 EMPLOYEES	18	4	-	-	-	3	-	-	4	-	-	-	-	1	-	-	3	-	1	1	1	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUAB COUNTY	9	2	-	-	1	2	-	-	1	-	-	1	-	-	-	-	1	-	1	-	-	-
1 TO 19 EMPLOYEES	6	2	-	-	-	2	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-
KANE COUNTY	4	-	-	-	1	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MILLARD COUNTY	9	3	-	-	1	1	-	-	1	1	-	-	-	-	1	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	7	3	-	-	-	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
MORGAN COUNTY	5	-	-	-	-	1	-	-	-	-	-	1	-	1	-	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-
PIUTE COUNTY	2	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RICH COUNTY	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SALT LAKE COUNTY	955	88	-	3	43	65	39	12	136	37	5	37	-	51	22	102	115	55	34	42	41	28
1 TO 19 EMPLOYEES	672	49	-	2	22	49	24	6	116	30	3	32	-	33	14	68	82	39	25	31	35	12
20 TO 99 EMPLOYEES	204	29	-	-	14	11	14	4	14	4	-	5	-	12	5	29	23	7	8	8	4	13
100 TO 249 EMPLOYEES	50	10	-	-	5	3	1	2	3	3	2	-	-	4	1	5	3	4	-	1	1	2
250 EMPLOYEES AND OVER	29	-	-	1	2	2	-	-	3	-	-	-	-	2	2	-	7	5	1	2	1	1
SAN JUAN COUNTY	7	-	-	-	1	1	-	-	2	-	-	-	-	-	1	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	1	1	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-
SANPETE COUNTY	18	4	-	-	3	3	-	-	3	-	-	-	-	1	-	1	1	-	2	-	-	-
1 TO 19 EMPLOYEES	14	3	-	-	2	3	-	-	3	-	-	-	-	-	-	1	1	-	1	-	-	-
20 TO 99 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEVIER COUNTY	23	7	-	-	2	1	-	-	2	-	-	-	-	7	-	-	1	-	1	-	1	1
1 TO 19 EMPLOYEES	16	6	-	-	1	1	-	-	1	-	-	-	-	4	-	-	1	-	1	-	1	-
20 TO 99 EMPLOYEES	6	1	-	-	1	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
SUMMIT COUNTY	10	2	-	-	-	5	-	-	1	-	-	-	-	-	-	1	-	-	-	-	1	-
1 TO 19 EMPLOYEES	9	2	-	-	-	4	-	-	1	-	-	-	-	-	-	1	-	-	-	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOOELE COUNTY	11	-	-	-	1	-	-	-	1	3	-	2	-	3	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	-	-	-	1	1	-	2	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	1	-	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
UINTAH COUNTY	16	1	-	-	-	6	-	-	2	-	-	-	2	1	-	1	2	-	-	-	-	1
1 TO 19 EMPLOYEES	12	1	-	-	-	5	-	-	2	-	-	-	1	-	-	1	1	-	-	-	-	1
20 TO 99 EMPLOYEES	4	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-
UTAH COUNTY	198	17	-	1	20	11	14	-	27	6	-	4	-	17	8	27	16	8	3	3	15	1
1 TO 19 EMPLOYEES	149	14	-	1	10	9	12	-	24	4	-	4	-	8	3	18	16	6	3	3	13	1
20 TO 99 EMPLOYEES	36	3	-	-	4	2	2	-	2	2	-	-	-	8	3	7	-	1	-	-	2	-
100 TO 249 EMPLOYEES	9	-	-	-	5	-	-	-	1	-	-	-	-	1	-	2	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	1	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-
WASATCH COUNTY	18	1	-	-	-	6	2	-	3	-	-	-	-	2	-	-	4	-	-	-	-	-
1 TO 19 EMPLOYEES	17	1	-	-	-	6	2	-	3	-	-	-	-	2	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
WASHINGTON COUNTY	22	-	-	-	1	4	-	-	5	-	-	-	-	4	-	2	3	2	1	-	-	-
1 TO 19 EMPLOYEES	19	-	-	-	-	4	-	-	4	-	-	-	-	4	-	1	3	2	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
WAYNE COUNTY	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WEBER COUNTY	142	23	-	2	7	9	1	-	23	7	1	-	2	7	-	17	10	5	6	1	14	7
1 TO 19 EMPLOYEES	93	10	-	1	4	4	1	-	19	6	1	-	2	3	-	11	6	4	4	1	12	4
20 TO 99 EMPLOYEES	32	10	-	1	2	4	-	-	2	-	-	-	-	2	-	4	2	1	-	-	2	2
100 TO 249 EMPLOYEES	13	3	-	-	-	1	-	-	2	-	-	-	-	2	-	2	1	-	1	-	-	1
250 EMPLOYEES AND OVER	4	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-	1	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

Vermont

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VERMONT



U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 41.5 thousand persons were employed in Vermont's manufacturing establishments. This figure represented an increase of 12 percent from the 1972 figure of 36.9 thousand workers.

The total value added by manufacture for the State amounted to $1,050 million in 1977, an increase of approximately 82 percent from the 1972 figure of $576 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were electric and electronic equipment; machinery, except electrical; printing and publishing; and lumber and wood products. They accounted for approximately 49 percent of the State's 1977 employment.

The most important counties in the State ranked by employment were Chittenden, Windsor, and Rutland. They accounted for approximately 48 percent of the State's 1977 employment. The order has shifted from 1972 when Chittenden, Windsor, and Bennington accounted for approximately 47 percent of the States employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 2 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Vermont:						
1977	41.5	498.0	41.3	494.8	.2	3.2
1972	36.9	311.4	(D)	(D)	(D)	(D)
1967	42.5	259.1	42.2	256.9	.3	2.2
1963	33.7	167.9	33.5	166.1	.3	1.8
STANDARD METROPOLITAN STATISTICAL AREAS (None in this State)						

(D) Withheld to avoid disclosing operations of individual companies.
[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, county, or city totals in other tables.

Table 2a. Historical Statistics for the State: 1977 and Earlier Years

For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
	VERMONT														
1977 CENSUS.	1 030	298	41.5	498.0	28.7	55.9	270.1	1 050.1	1 175.9	2 189.3	93.0	.21	100	100	19 596.9
1976 ASM....	(NA)	(NA)	41.1	449.8	28.9	55.0	247.6	952.3	1 090.7	2 056.2	95.6	.22	99	96	18 753.0
1975 ASM....	(NA)	(NA)	40.3	409.4	27.8	52.8	224.7	776.2	909.7	1 680.3	76.6	.22	97	94	18 302.2
1974 ASM....	(NA)	(NA)	39.7	382.8	28.2	55.1	223.5	792.3	815.1	1 581.3	69.3	.20	96	102	19 844.8
1973 ASM....	(NA)	(NA)	37.8	342.7	26.6	53.1	196.1	687.8	680.0	1 339.6	42.5	.19	91	102	19 897.9
1972 CENSUS.	860	274	36.9	311.4	26.1	52.2	176.3	576.0	639.2	1 229.2	36.8	.19	89	98	19 028.7
1971 ASM....	(NA)	(NA)	37.4	296.2	25.6	51.9	161.3	562.1	540.4	1 101.9	49.7	.20	90	94	18 363.1
1970 ASM....	(NA)	(NA)	41.5	309.8	28.3	58.0	167.9	556.4	524.9	1 047.4	67.1	.22	100	99	19 217.2
1969 ASM....	(NA)	(NA)	42.6	301.0	30.0	61.5	173.4	555.5	515.2	1 043.4	51.2	.21	103	103	20 035.5
1968 ASM....	(NA)	(NA)	41.8	272.1	29.9	62.2	162.6	531.0	502.8	1 045.3	39.7	.21	101	100	19 527.6
1967 CENSUS.	925	281	42.5	259.1	31.3	64.6	162.4	515.0	622.0	1 126.9	35.1	.22	102	99	19 323.2
1966 ASM....	925	281	42.3	246.4	31.9	66.8	159.5	514.2	640.8	1 129.7	34.1	.22	102	98	19 024.5
1965 ASM....	(NA)	(NA)	38.8	207.6	29.9	61.1	138.1	410.4	549.0	898.9	36.1	.22	93	92	18 010.2
1964 ASM....	(NA)	(NA)	33.7	176.5	25.8	53.4	119.4	337.2	374.6	710.7	20.7	.20	81	89	17 268.5
1963 CENSUS.	977	267	33.7	167.9	25.7	52.4	113.4	309.3	(NA)	(NA)	15.7	.20	81	87	16 958.4

(NA) Not available.

[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State: 1977 and Earlier Years

(For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	VERMONT								
1977 CENSUS.....	11 986	69	1 950	4.83	54	76	25 277	47	18.79
1976 ASM.....	10 944	70	1 903	4.50	53	75	23 170	47	17.31
1975 ASM.....	10 159	69	1 899	4.26	54	79	19 261	53	14.70
1974 ASM.....	9 642	71	1 954	4.06	52	76	19 957	48	14.38
1973 ASM.....	9 066	70	1 996	3.69	50	75	18 196	50	12.95
1972 CENSUS.....	8 439	71	2 000	3.38	52	77	15 610	54	11.03
1971 ASM.....	7 920	68	2 027	3.11	49	76	15 029	53	10.83
1970 ASM.....	7 465	68	2 049	2.89	50	80	13 407	56	9.59
1969 ASM.....	7 066	70	2 050	2.82	49	78	13 040	54	9.03
1968 ASM.....	6 510	72	2 080	2.61	48	74	12 703	51	8.54
1967 CENSUS.....	6 096	74	2 064	2.51	55	78	12 118	50	7.97
1966 ASM.....	5 825	75	2 094	2.39	57	79	12 156	48	7.70
1965 ASM.....	5 351	77	2 043	2.26	61	84	10 577	51	6.72
1964 ASM.....	5 237	77	2 070	2.24	53	78	10 006	52	6.31
1963 CENSUS.....	4 982	76	2 039	2.16	(NA)	(NA)	9 178	54	5.90

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	1 030	860
With 1 to 19 employees	do	732	586
With 20 to 99 employees	do	214	196
With 100 employees or more	do	84	78
All employees, average for year[1]	1,000	41.5	36.9
Payroll for year, all employees[1]	mil. dollars	498.0	311.4
Production workers:			
Average for year	1,000	28.7	26.1
March	do	27.8	25.1
May	do	28.6	25.8
August	do	29.1	26.7
November	do	29.0	26.7
Hours	millions	55.9	52.2
January to March	do	13.6	12.5
April to June	do	14.2	13.2
July to September	do	13.7	12.9
October to December	do	14.4	13.6
Wages	mil. dollars	270.1	176.3
Cost of materials, etc.[2]	do	1 175.9	639.2
Materials, parts, containers, etc., consumed	do	1 030.5	567.1
Resales	do	81.4	45.8
Fuels consumed	do	18.2	7.0
Purchased electric energy	do	19.8	10.4
Contract work	do	26.0	8.9
Value of shipments, including resales[2]	do	2 189.3	1 229.2
Value of resales	do	87.8	50.4
Value added by manufacture	do	1 050.1	576.0
Manufacturers' inventories:			
Beginning of year	do	276.0	208.5
Finished products	do	67.2	39.3
Work in process	do	127.2	125.8
Materials, supplies, fuel, etc.	do	81.6	43.5
End of year	do	319.3	196.6
Finished products	do	65.2	45.0
Work in process	do	166.0	104.4
Materials, supplies, fuel, etc.	do	88.1	47.2
Capital expenditures for plant and equipment	do	100.7	64.0
New capital expenditures	do	93.0	36.8
New buildings and other structures	do	14.3	11.5
New machinery and equipment	do	78.7	25.3
Used capital expenditures	do	7.7	27.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	738.3	3
New capital expenditures	102.6	7
Used capital expenditures	6.7	9
Retirements	(35.2)	23
End of year	812.5	2
Buildings and other structures:		
Beginning of year	200.4	4
New capital expenditures	17.3	14
Used capital expenditures	1.9	7
Retirements	(5.7)	62
End of year	213.9	3
Machinery and equipment:		
Beginning of year	537.9	3
New capital expenditures	85.4	6
Automobiles, trucks, etc., for highway use	1.6	(NA)
Computers and peripheral data processing equip.	3.4	(NA)
All other	69.8	(NA)
New machinery and equipment, n.s.k.	10.6	(NA)
Used capital expenditures	4.9	11
Retirements	(29.5)	17
End of year	598.7	2

Item	Amount (million dollars)	Standard error of estimate (percent)
Rental payments:		
Total	8.8	11
Buildings and other structures	(3.2)	19
Machinery and equipment	5.6	12
Depreciation charges during 1977:		
Total	68.5	4
Buildings and other structures	9.8	10
Machinery and equipment	58.7	4
Supplemental labor costs:		
Total	99.6	2
Legal costs	36.8	2
Voluntary costs	62.8	3
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	(5.2)	16
Response coverage ratio (percent)	60	(X)
Machinery	(10.4)	18
Response coverage ratio (percent)	63	(X)
Cost of purchased communication services	(7.0)	18
Response coverage ratio (percent)	66	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Counties, and Selected Cities and Towns: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Vermont	-	**1 030**	**298**	**41.5**	**498.0**	**28.7**	**55.9**	**270.1**	**1 050.1**	**1 175.9**	**2 189.3**	**93.0**	**36.9**	**576.0**
COUNTIES														
Addison	-	45	13	1.9	20.5	1.5	3.0	13.1	53.1	91.8	144.3	1.6	1.5	25.3
Bennington	-	85	36	4.2	40.6	3.4	6.2	28.6	117.2	119.6	235.1	9.7	4.4	64.4
Caledonia	-	64	16	1.8	20.8	1.3	2.7	13.8	54.9	37.1	91.0	3.6	1.5	25.8
Chittenden	-	130	36	10.2	168.0	3.8	8.0	40.0	298.8	347.9	615.2	44.4	8.5	148.4
Essex	-	14	5	1.0	10.0	0.9	1.8	8.2	20.0	30.5	50.2	(D)	(D)	(D)
Franklin	-	53	19	2.2	23.3	1.7	3.4	16.8	50.1	113.0	165.0	3.0	2.1	35.3
Grand Isle	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lamoille	E2	44	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.0
Orange	E2	38	13	1.1	9.8	0.9	1.7	7.1	16.4	22.3	39.0	1.9	0.7	8.5
Orleans	-	44	17	1.8	16.0	1.5	3.0	12.1	31.0	55.6	92.0	1.3	1.6	20.9
Rutland	-	112	36	4.5	51.4	3.6	6.9	36.5	114.8	89.6	204.3	4.5	4.3	75.9
Washington	-	136	32	2.6	26.5	2.1	4.0	19.2	47.1	64.0	111.2	4.3	2.7	34.3
Windham	-	140	38	4.3	42.8	3.6	6.8	31.6	88.1	96.3	183.5	7.5	3.6	51.5
Windsor	-	122	29	5.3	63.5	3.8	7.5	39.8	148.3	100.6	241.0	5.6	4.6	66.8
CITIES AND TOWNS														
Barre	-	62	17	1.4	14.8	1.2	2.2	11.1	29.3	19.9	49.0	1.0	2.1	26.5
Bellows Falls	E2	22	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	10.2
Bennington	-	42	24	2.6	25.9	2.1	3.8	18.4	67.7	86.8	154.3	8.2	2.4	35.3
Brattleboro town	-	53	18	2.8	29.8	2.3	4.4	21.7	61.5	63.6	124.8	2.1	2.2	34.3
Burlington	-	53	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	72.0
Essex Junction	-	13	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Newport	-	14	10	0.7	5.5	0.6	1.1	3.9	10.7	22.7	34.1	0.6	(NA)	(NA)
Rutland	-	27	14	2.6	31.5	2.0	3.9	22.1	78.8	42.5	121.7	2.9	2.6	54.7
St. Albans	-	11	5	0.5	6.4	0.4	0.8	3.9	11.2	26.2	38.1	0.4	1.2	21.9
Springfield town	-	24	9	2.5	35.2	1.7	3.6	21.0	82.1	54.0	129.1	2.1	1.6	26.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	**1 030**	**298**	**41.5**	**498.0**	**28.7**	**55.9**	**270.1**	**1 050.1**	**1 175.9**	**2 189.3**	**93.0**	**36.9**	**576.0**
20	**Food and kindred products**	-	**89**	**35**	**2.2**	**23.6**	**1.3**	**2.7**	**13.0**	**59.8**	**295.9**	**357.7**	**3.4**	**2.0**	**40.4**
201	Meat products	E2	10	4	0.2	1.2	0.1	0.3	1.0	1.4	11.4	12.9	(Z)	AA	(D)
202	Dairy products	-	40	16	0.9	10.9	0.6	1.2	6.1	29.8	186.2	216.7	1.8	0.9	15.8
2022	Cheese, natural and processed	-	10	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2026	Fluid milk	-	26	11	0.6	7.8	0.3	0.7	3.6	15.8	119.0	135.6	1.2	0.7	8.5
204	Grain mill products	-	8	4	0.3	3.7	0.2	0.5	2.7	9.8	74.1	85.1	(D)	0.4	9.8
2048	Prepared feeds, n.e.c.	-	8	4	0.3	3.7	0.2	0.5	2.7	9.8	74.1	85.1	(D)	0.4	9.8
205	Bakery products	E1	11	5	0.4	4.1	0.2	0.4	1.9	8.2	10.2	18.4	(D)	BB	(D)
2051	Bread, cake, and related products	E1	11	5	0.4	4.1	0.2	0.4	1.9	8.2	10.2	18.4	(D)	BB	(D)
208	Beverages	E1	7	4	0.2	2.0	0.1	0.1	0.4	4.8	6.4	11.2	0.3	(NA)	(NA)
2086	Bottled and canned soft drinks	E1	7	4	0.2	2.0	0.1	0.1	0.4	4.8	6.4	11.2	0.3	(NA)	(NA)
209	Miscellaneous foods and kindred products	-	10	2	0.2	1.6	0.1	0.2	1.0	5.7	7.7	13.4	0.3	(NA)	(NA)
2099	Food preparations, n.e.c.	-	9	2	0.2	1.6	0.1	0.2	1.0	5.7	7.7	13.4	0.3	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
22	**Textile mill products --**	**E3**	**15**	**11**	**0.6**	**5.2**	**0.5**	**1.0**	**4.0**	**8.6**	**13.7**	**22.4**	**(D)**	**0.6**	**5.9**
225	Knitting mills	–	6	4	0.3	2.0	0.2	0.4	1.4	2.8	1.1	3.9	(D)	AA	(D)
2257	Circular knit fabric mills	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
23	**Apparel and other textile products**	**–**	**36**	**16**	**1.3**	**8.1**	**1.1**	**1.9**	**6.2**	**15.4**	**8.9**	**24.3**	**(D)**	**1.2**	**7.9**
232	Men's and boys' furnishings	–	7	6	0.5	3.1	0.4	0.7	2.1	6.6	3.4	10.0	(D)	0.2	1.7
2321	Men's and boys' shirts and nightwear	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c.	–	3	3	0.3	1.6	0.2	0.4	0.8	3.9	2.7	6.6	(D)	(NA)	(NA)
233	Women's and misses' outerwear	–	17	6	0.5	3.2	0.5	0.7	2.6	6.1	3.5	9.6	(D)	0.6	3.5
2335	Women's and misses' dresses	E1	12	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
234	Women's and children's undergarments	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2341	Women's and children's underwear	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
24	**Lumber and wood products**	**E1**	**263**	**42**	**3.5**	**29.5**	**3.0**	**6.0**	**22.8**	**57.0**	**81.4**	**137.5**	**(D)**	**2.5**	**28.7**
2411	Logging camps and logging contractors	E7	111	1	0.2	2.4	0.2	0.3	2.0	5.8	7.3	13.1	(D)	BB	(D)
242	Sawmills and planing mills	E1	82	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	9.8
2421	Sawmills and planing mills, general	E1	69	14	1.2	9.8	1.0	2.1	7.5	21.4	24.5	45.9	(D)	0.6	8.0
2426	Hardwood dimension and flooring	E1	10	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
243	Millwork, plywood, and structural members	–	16	6	0.8	6.0	0.7	1.3	5.0	10.6	20.6	31.0	(D)	CC	(D)
2435	Hardwood veneer and plywood	–	4	4	0.6	4.9	0.6	1.0	4.1	8.6	18.7	27.0	(D)	CC	(D)
244	Wood containers	E1	11	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2449	Wood containers, n.e.c.	–	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
249	Miscellaneous wood products	–	35	14	0.8	6.9	0.7	1.3	4.8	11.3	16.5	27.6	(D)	CC	(D)
2499	Wood products, n.e.c.	–	33	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
25	**Furniture and fixtures**	**–**	**27**	**16**	**2.4**	**20.5**	**2.1**	**4.1**	**16.1**	**33.3**	**28.2**	**65.7**	**(D)**	**2.2**	**25.6**
251	Household furniture	E1	24	13	2.3	19.3	2.0	3.9	15.3	29.9	25.2	59.5	(D)	EE	(D)
2511	Wood household furniture	E1	24	13	2.3	19.3	2.0	3.9	15.3	29.9	25.2	59.5	(D)	EE	(D)
26	**Paper and allied products**	**–**	**28**	**15**	**2.6**	**31.7**	**2.1**	**4.2**	**22.7**	**88.2**	**114.7**	**201.7**	**10.0**	**2.2**	**55.6**
2621	Paper mills, except building paper	–	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2631	Paperboard mills	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
264	Miscellaneous converted paper products	–	14	6	1.2	12.5	1.0	1.9	9.4	47.0	48.7	94.0	2.9	0.8	25.7
2647	Sanitary paper products	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2649	Converted paper products, n.e.c.	E4	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
265	Paperboard containers and boxes	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2654	Sanitary food containers	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
27	**Printing and publishing**	**–**	**162**	**37**	**3.5**	**36.8**	**2.6**	**4.8**	**24.8**	**78.3**	**43.2**	**121.6**	**5.3**	**3.6**	**58.2**
2711	Newspapers	–	45	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	11.6
273	Books	–	10	5	1.0	11.3	0.8	1.7	8.8	17.8	6.7	24.4	0.5	EE	(D)
2732	Book printing	–	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2741	Miscellaneous publishing	E1	12	4	0.2	2.0	0.2	0.3	1.2	3.4	2.0	5.5	0.2	(NA)	(NA)
275	Commercial printing	E1	73	11	0.6	7.0	0.5	0.9	4.6	10.4	8.6	19.0	1.3	0.7	11.3
2752	Commercial printing, lithographic	–	32	10	0.6	6.3	0.4	0.8	4.1	9.0	7.4	16.5	1.2	0.6	9.0
2761	Manifold business forms	–	3	3	0.5	6.5	0.4	0.9	5.0	23.8	18.6	42.2	1.2	BB	(D)
28	**Chemicals and allied products**	**E1**	**13**	**4**	**0.2**	**2.6**	**0.1**	**0.3**	**1.7**	**12.2**	**6.2**	**18.5**	**0.6**	**0.3**	**7.1**
30	**Rubber and miscellaneous plastics products**	**–**	**24**	**13**	**EE**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**1.7**	**21.9**
3069	Fabricated rubber products, n.e.c.	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3079	Miscellaneous plastics products	–	22	12	1.5	12.6	1.3	2.4	9.4	27.7	25.9	53.8	1.6	EE	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
31	**Leather and leather products**	-	**8**	**3**	**0.4**	**2.7**	**0.3**	**0.6**	**1.9**	**4.5**	**7.5**	**11.7**	**(D)**	**0.6**	**3.6**
3111	Leather tanning and finishing	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
32	**Stone, clay, and glass products**	**E1**	**115**	**27**	**2.0**	**23.7**	**1.6**	**3.1**	**16.8**	**43.2**	**36.3**	**79.3**	**1.5**	**2.7**	**37.4**
327	Concrete, gypsum, and plaster products	E2	27	5	0.4	4.8	0.3	0.5	2.7	10.6	10.6	21.2	(D)	0.5	8.8
3272	Concrete products, n.e.c.	E1	15	1	0.2	1.6	0.1	0.1	0.7	4.1	1.8	5.8	0.1	(NA)	(NA)
3273	Ready-mixed concrete	E4	10	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	6.6
3281	Cut stone and stone products	-	74	19	1.4	17.0	1.2	2.3	13.0	29.0	24.0	52.8	0.8	2.0	27.7
33	**Primary metal industries**	**-**	**14**	**7**	**0.9**	**8.9**	**0.8**	**1.4**	**6.3**	**26.0**	**26.7**	**51.8**	**1.0**	**EE**	**(D)**
335	Nonferrous rolling and drawing	-	8	4	0.8	7.3	0.6	1.1	5.1	23.4	23.6	46.3	0.9	CC	(D)
3357	Nonferrous wire drawing and insulating	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
34	**Fabricated metal products**	**-**	**43**	**10**	**3.1**	**47.3**	**1.6**	**3.3**	**18.0**	**105.1**	**84.0**	**182.1**	**3.0**	**2.4**	**42.4**
342	Cutlery, hand tools, and hardware	-	6	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3423	Hand and edge tools, n.e.c.	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
344	Fabricated structural metal products	-	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
348	Ordnance and accessories, n.e.c.	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3484	Small arms	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
35	**Machinery, except electrical**	**-**	**85**	**32**	**6.0**	**77.8**	**4.3**	**8.6**	**50.2**	**189.8**	**84.4**	**265.0**	**6.9**	**5.0**	**94.3**
354	Metalworking machinery	-	23	12	3.8	50.4	2.7	5.5	33.0	111.2	48.6	155.5	4.3	3.1	56.7
3541	Machine tools, metal cutting types	-	6	4	2.8	38.2	1.9	3.8	23.7	86.8	37.3	117.2	2.5	EE	(D)
3545	Machine tool accessories	-	4	4	0.7	9.1	0.6	1.3	7.0	18.5	7.0	28.3	1.6	1.2	24.1
355	Special industry machinery	-	19	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.4
3553	Woodworking machinery	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
356	General industrial machinery	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
357	Office and computing machines	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3576	Scales and balances, except laboratory	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
358	Refrigeration and service machinery	-	4	3	0.4	5.5	0.3	0.6	3.8	19.5	7.4	26.6	0.4	BB	(D)
3589	Service industry machinery, n.e.c.	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	28	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.0
3599	Machinery, except electrical, n.e.c.	E2	28	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.0
36	**Electric and electronic equipment**	**-**	**31**	**11**	**7.3**	**120.7**	**2.9**	**5.7**	**27.8**	**217.6**	**273.7**	**468.2**	**(D)**	**FF**	**(D)**
364	Electric lighting and wiring equipment	-	7	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3648	Lighting equipment, n.e.c.	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
367	Electronic components and accessories	-	12	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3674	Semiconductors and related devices	-	2	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3675	Electronic capacitors	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
369	Miscellaneous electrical equipment and supplies	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3691	Storage batteries	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3692	Primary batteries, dry and wet	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
37	**Transportation equipment**	**-**	**12**	**5**	**1.5**	**20.4**	**1.3**	**2.6**	**14.8**	**32.5**	**18.3**	**51.3**	**2.5**	**EE**	**(D)**
371	Motor vehicles and equipment	E1	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3724	Aircraft engines and engine parts	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups end industries with 150 employees or more. For explenetion of terms, see eppendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
38	**Instruments and related products**	-	11	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	19.1
382	Measuring end controlling devices	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3829	Measuring end controlling devices, n.e.c.	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
384	Medical instruments and supplies	E2	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3841	Surgicel end medical instruments	E2	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3851	Ophthalmic goods	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
39	**Miscellaneous manufacturing industries**	E2	44	7	0.5	3.7	0.4	0.7	2.6	8.7	6.1	15.0	(D)	0.9	11.1
394	Toys end sporting goods	E3	16	4	0.3	1.7	0.2	0.4	1.1	4.0	2.0	6.3	(D)	0.5	4.9
399	Miscelleneous manufactures	E1	17	3	0.2	1.8	0.2	0.3	1.3	4.0	3.6	7.6	(D)	0.4	5.9
--	**Administretive and auxiliary**	-	10	3	0.2	3.2	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of esteblishments, total employment, end total peyroll for central administretive offices and auxiliaries (for definition, see eppendix B).
- Represents zero. (D) Withheld to avoid disclosing operetions of individual companies. (NA) Not available. (Z) Less then 50 thousand dollars or hours; under 50 employees.
[1]Payroll end sales date for small single-unit companies with up to 20 employees (cutoff veried by industry) were obteined from administretive records of other government egencies rether then from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received et time dete were tebulated. The following symbols are shown for those industry groups and industries where estimated data besed on administrative records data eccount for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Statistics for some industry groups and industries ere withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include date for ell component industries, regardless of whether data are shown for individual industries in the group.
[3]Aggregate of cost of materials and velue of shipments for industry groups (2- and 3-digit) and for all menufecturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Not applicable]

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual compenies. For explanetion of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers			Velue added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by menufecture (million dollers)
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollers)						
	Addison County	-	45	13	1.9	20.5	1.5	3.0	13.1	53.1	91.8	144.3	1.6	1.5	25.3
	Bennington County	-	85	36	4.2	40.6	3.4	6.2	28.6	117.2	119.6	235.1	9.7	4.4	64.4
	Caledonia County	-	64	16	1.8	20.8	1.3	2.7	13.8	54.9	37.1	91.0	3.6	1.5	25.8

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more end industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individuel companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollers)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value edded by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capitel expenditures (million dollars)	All employees (1,000)	Value added by menufecture (million dollers)
	Chittenden County	-	**130**	**36**	**10.2**	**166.0**	**3.6**	**6.0**	**40.0**	**298.8**	**347.9**	**615.2**	**44.4**	**6.5**	**146.4**
20	Food and kindred products	-	20	10	0.6	6.6	0.4	0.7	3.4	15.3	46.6	61.9	(D)	0.5	17.4
	Essex County	-	**14**	**5**	**1.0**	**10.0**	**0.9**	**1.6**	**6.2**	**20.0**	**30.5**	**50.2**	**(D)**	**(D)**	**(D)**
	Franklin County	-	**53**	**19**	**2.2**	**23.3**	**1.7**	**3.4**	**16.6**	**50.1**	**113.0**	**165.0**	**3.0**	**2.1**	**35.3**
	Orange County	-	**36**	**13**	**1.1**	**9.8**	**0.9**	**1.7**	**7.1**	**16.4**	**22.3**	**39.0**	**1.9**	**0.7**	**8.5**
	Orleans County	-	**44**	**17**	**1.8**	**16.0**	**1.5**	**3.0**	**12.1**	**31.0**	**55.6**	**92.0**	**1.3**	**1.8**	**20.9**
	Rutland County	-	**112**	**36**	**4.5**	**51.4**	**3.6**	**6.9**	**38.5**	**114.6**	**89.6**	**204.3**	**4.5**	**4.3**	**75.9**
24	Lumber and wood products	-	24	6	0.6	6.2	0.5	1.0	4.6	10.9	21.2	31.9	(D)	(NA)	(NA)
27	Printing and publishing	-	17	5	0.5	5.5	0.3	0.6	3.3	16.2	11.6	27.6	0.3	(NA)	(NA)
32	Stone, clay, end gless products	E3	16	6	0.5	6.3	0.4	0.6	4.6	8.7	6.7	15.5	0.3	0.7	8.3
	Washington County	-	**136**	**32**	**2.6**	**26.5**	**2.1**	**4.0**	**19.2**	**47.1**	**64.0**	**111.2**	**4.3**	**2.7**	**34.3**
32	Stone, cley, and glass products	-	65	15	1.1	12.4	0.9	1.7	9.2	23.5	20.6	43.9	0.6	1.4	21.7
	Windham County	-	**140**	**36**	**4.3**	**42.8**	**3.6**	**8.6**	**31.6**	**88.1**	**96.3**	**163.5**	**7.5**	**3.6**	**51.5**
24	Lumber and wood products	-	50	7	0.6	6.3	0.7	1.4	5.2	11.4	13.9	25.2	(D)	(NA)	(NA)
26	Paper and allied products	-	7	6	0.9	11.3	0.8	1.5	7.8	25.7	45.7	70.8	(D)	0.5	9.8
264	Miscellaneous converted paper products	E1	4	3	0.6	7.0	0.5	1.0	4.8	16.9	34.2	50.4	(D)	(NA)	(NA)
27	Printing end publishing	E1	32	9	1.3	13.7	1.1	2.0	10.5	22.7	11.5	34.4	1.2	1.3	17.9
	Windsor County	-	**122**	**29**	**5.3**	**83.5**	**3.8**	**7.5**	**39.8**	**148.3**	**100.6**	**241.0**	**5.6**	**4.6**	**66.6**
35	Machinery, except electrical	-	21	6	3.1	43.2	2.1	4.3	26.6	101.5	43.6	138.0	2.8	2.1	37.3
354	Metelworking machinery	-	6	6	2.9	40.6	2.0	4.1	25.3	92.6	40.6	126.5	2.7	(NA)	(NA)

Note: "County" level includes date on number of esteblishments, total employment, end total peyroll for centrel edministrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operetions of individuel companies. (NA) Not aveileble. (Z) Less then 50 thousend dollers or hours; under 50 employees.
[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff veried by industry) were obteined from edministretive records of other government egencies rether than from census report forms. These deta were then used in conjunction with industry evereges to estimate the belance of items shown for these smell esteblishments. This technique wes elso used for a smell number of other establishments whose reports were not received et time dete were tabuleted. The following symbols ere shown for those Stetes where estimated dete besed on edministretive records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E6—80 to 69 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of meterials and value of shipments for Industry groups (2- and 3-digit) end for ell manufecturing industries includes extensive duplication, since products of some industries are used es meterials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities and Towns: 1977 and 1972

[Includes cities with 450 employees or more end industry groups end industries with 450 employees or more within cities, except those thet would disclose operetions of individuel companies. For explenation of terms, see eppendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Peyroll (million dollers)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Velue edded by menufecture (million dollers)	Cost of meterials[2] (million dollers)	Velue of shipments[2] (million dollars)	New capitel expenditures (million dollers)	All employees (1,000)	Velue edded by menufecture (million dollars)
	Barre	-	**62**	**17**	**1.4**	**14.8**	**1.2**	**2.2**	**11.1**	**29.3**	**19.9**	**49.0**	**1.0**	**2.1**	**26.5**
32	Stone, clay, end glass products	-	48	12	0.7	8.7	0.6	1.2	6.5	16.6	12.6	29.0	0.4	(NA)	(NA)
	Bennington	-	**42**	**24**	**2.6**	**25.9**	**2.1**	**3.8**	**18.4**	**87.7**	**88.8**	**154.3**	**8.2**	**2.4**	**35.3**
	Brattleboro town	-	**53**	**18**	**2.8**	**29.6**	**2.3**	**4.4**	**21.7**	**81.5**	**83.8**	**124.8**	**2.1**	**2.2**	**34.3**
27	Printing and publishing	E1	21	7	1.2	12.4	1.0	1.8	9.7	19.6	7.6	27.4	(D)	(NA)	(NA)
	Newport	-	**14**	**10**	**0.7**	**5.5**	**0.8**	**1.1**	**3.9**	**10.7**	**22.7**	**34.1**	**0.8**	**(NA)**	**(NA)**
	Rutland	-	**27**	**14**	**2.8**	**31.5**	**2.0**	**3.9**	**22.1**	**78.8**	**42.5**	**121.7**	**2.9**	**2.6**	**54.7**
27	Printing end publishing	-	9	5	0.5	5.3	0.3	0.6	3.1	15.6	11.5	27.1	(D)	(NA)	(NA)
	St. Albans	-	**11**	**5**	**0.5**	**8.4**	**0.4**	**0.8**	**3.9**	**11.2**	**26.2**	**38.1**	**0.4**	**1.2**	**21.9**
	Springfield town	-	**24**	**9**	**2.5**	**35.2**	**1.7**	**3.8**	**21.0**	**82.1**	**54.0**	**129.1**	**2.1**	**1.6**	**26.1**
3541	Machine tools, metal cutting types	-	3	3	2.0	28.1	1.3	2.9	17.2	62.8	29.4	85.5	1.3	(NA)	(NA)

Note: "City" level includes dete on number of establishments, total employment, and total payroll for central edministretive offices end euxiliaries (for definition, see eppendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
VERMONT	1030	89	-	15	36	263	27	28	162	13	-	24	8	115	14	43	85	31	12	11	44	10
1 TO 4 EMPLOYEES	489	34	-	2	13	164	2	8	96	5	-	6	3	47	4	23	37	12	3	4	24	2
5 TO 9 EMPLOYEES	115	9	-	1	2	31	7	1	17	2	-	2	-	15	2	4	7	5	2	1	4	3
10 TO 19 EMPLOYEES	128	11	-	1	5	26	2	4	12	2	-	3	2	26	1	6	9	3	2	2	9	2
20 TO 49 EMPLOYEES	144	23	-	6	9	22	7	2	21	3	-	3	-	17	2	7	12	2	2	-	5	1
50 TO 99 EMPLOYEES	70	8	-	3	2	12	2	5	9	1	-	3	1	7	2	1	6	1	2	1	2	2
100 TO 249 EMPLOYEES	56	4	-	2	5	8	4	4	6	-	-	5	2	3	1	-	7	4	-	1	-	-
250 TO 499 EMPLOYEES	16	-	-	-	-	-	1	4	-	-	-	2	-	-	2	1	3	2	-	1	-	-
500 TO 999 EMPLOYEES	9	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	4	1	-	1	-	-
1000 TO 2499 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
2500 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
ADDISON COUNTY	45	6	-	-	1	13	2	-	7	2	-	3	-	1	-	1	3	-	-	1	4	1
1 TO 19 EMPLOYEES	32	5	-	-	-	9	1	-	5	1	-	2	-	1	-	1	3	-	-	-	3	1
20 TO 99 EMPLOYEES	8	1	-	-	1	3	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	4	-	-	-	-	1	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
BENNINGTON COUNTY	85	4	-	2	6	15	5	6	9	1	-	3	1	4	1	5	9	5	2	-	7	-
1 TO 19 EMPLOYEES	49	3	-	-	3	12	-	4	6	1	-	2	-	2	-	3	6	1	1	-	5	-
20 TO 99 EMPLOYEES	23	1	-	2	2	3	3	1	3	-	-	-	-	2	-	1	2	-	1	-	2	-
100 TO 249 EMPLOYEES	10	-	-	-	1	-	2	1	-	-	-	1	1	-	-	-	1	3	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-
CALEDONIA COUNTY	64	2	-	1	1	26	1	2	7	2	-	-	1	7	-	1	9	2	-	1	1	-
1 TO 19 EMPLOYEES	48	-	-	1	-	24	-	-	6	2	-	-	1	6	-	1	4	1	-	1	1	-
20 TO 99 EMPLOYEES	11	2	-	-	1	2	1	1	1	-	-	-	-	1	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
CHITTENDEN COUNTY	130	20	-	1	3	17	2	2	27	1	-	5	-	9	4	8	11	5	2	3	8	2
1 TO 19 EMPLOYEES	94	10	-	1	2	15	1	2	21	1	-	4	-	8	2	5	5	4	1	3	8	1
20 TO 99 EMPLOYEES	27	9	-	-	-	2	1	-	4	-	-	-	-	1	1	2	5	-	1	-	-	1
100 TO 249 EMPLOYEES	6	1	-	-	1	-	-	-	2	-	-	1	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
ESSEX COUNTY	14	-	-	-	-	9	2	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	9	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANKLIN COUNTY	53	7	-	1	8	10	1	4	5	-	-	1	-	2	3	3	2	2	-	1	3	-
1 TO 19 EMPLOYEES	34	3	-	1	5	10	-	1	4	-	-	-	-	1	2	1	2	1	-	1	2	-
20 TO 99 EMPLOYEES	15	3	-	-	3	-	1	1	1	-	-	1	-	1	1	2	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-
GRAND ISLE COUNTY	3	-	-	-	-	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-
LAMOILLE COUNTY	44	2	-	-	4	22	-	-	7	-	-	-	-	1	-	1	2	3	-	-	2	-
1 TO 19 EMPLOYEES	36	2	-	-	2	17	-	-	6	-	-	-	-	1	-	1	2	3	-	-	2	-
20 TO 99 EMPLOYEES	7	-	-	-	1	5	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ORANGE COUNTY	38	4	-	2	-	9	2	2	7	-	-	1	1	1	1	4	3	-	1	-	-	-
1 TO 19 EMPLOYEES	25	4	-	-	-	5	1	2	6	-	-	-	1	1	-	3	2	-	-	-	-	-
20 TO 99 EMPLOYEES	9	-	-	1	-	3	-	-	1	-	-	-	-	-	1	1	1	-	1	-	-	-
100 TO 249 EMPLOYEES	3	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ORLEANS COUNTY	44	6	-	-	5	17	2	-	2	1	-	1	-	-	-	2	4	2	-	-	1	1
1 TO 19 EMPLOYEES	27	1	-	-	2	14	-	-	1	1	-	-	-	-	-	2	3	2	-	-	1	-
20 TO 99 EMPLOYEES	11	5	-	-	1	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	4	-	-	-	2	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
RUTLAND COUNTY	112	14	-	-	3	24	3	1	17	3	-	2	2	16	1	5	7	2	4	1	4	3
1 TO 19 EMPLOYEES	76	11	-	-	2	18	3	-	12	1	-	-	2	10	1	5	3	1	2	-	2	3
20 TO 99 EMPLOYEES	26	3	-	-	1	4	-	-	3	2	-	2	-	5	-	-	2	1	1	-	2	-
100 TO 249 EMPLOYEES	8	-	-	-	-	2	-	-	2	-	-	-	-	1	-	-	2	-	-	1	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
WASHINGTON COUNTY	136	7	-	3	1	17	1	-	18	-	-	3	-	65	1	4	6	2	2	-	4	2
1 TO 19 EMPLOYEES	104	5	-	-	1	14	1	-	15	-	-	1	-	50	-	4	5	1	2	-	4	1
20 TO 99 EMPLOYEES	27	2	-	2	-	3	-	-	2	-	-	2	-	13	1	-	1	-	-	-	-	1
100 TO 249 EMPLOYEES	4	-	-	1	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
WINDHAM COUNTY	140	7	-	-	3	50	5	7	32	2	-	1	1	6	2	5	8	3	-	3	4	1
1 TO 19 EMPLOYEES	102	4	-	-	2	43	3	1	23	1	-	1	-	6	1	4	5	3	-	1	3	1
20 TO 99 EMPLOYEES	30	3	-	-	1	5	2	4	8	1	-	-	-	-	-	1	3	-	-	1	1	-
100 TO 249 EMPLOYEES	5	-	-	-	-	2	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-
WINDSOR COUNTY	122	10	-	5	1	33	1	3	22	1	-	4	2	3	-	3	21	5	1	1	6	-
1 TO 19 EMPLOYEES	93	6	-	1	1	31	1	3	19	1	-	1	1	2	-	2	13	3	1	1	6	-
20 TO 99 EMPLOYEES	18	2	-	4	-	1	-	-	3	-	-	1	1	1	-	1	2	2	-	-	-	-
100 TO 249 EMPLOYEES	5	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	4	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

Virginia

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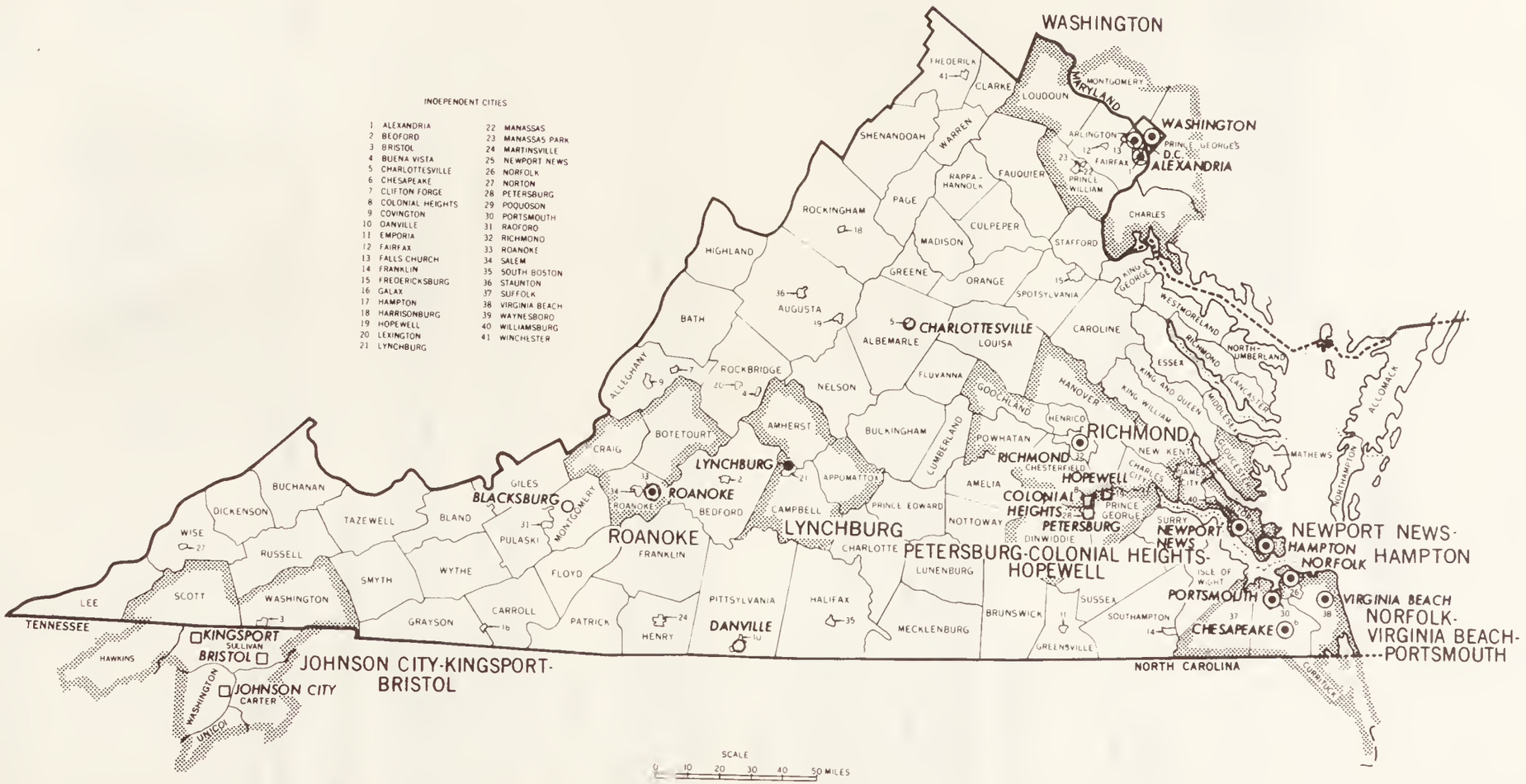
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LEGEND

- ◉ Places of 100,000 or more inhabitants
- ● Places of 50,000 to 100,000 inhabitants
- □ SMSA central cities with fewer than 50,000 inhabitants
- ○ Places of 25,000 to 50,000 inhabitants outside SMSA's

Standard Metropolitan Statistical Areas (SMSA's)

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 395.2 thousand persons were employed in Virginia's manufacturing establishments. This figure represented an increase of 5 percent from the 1972 figure of 375.4 thousand workers.

The total value added by manufacture for the State amounted to $10,882 million in 1977, an increase of approximately 76 percent from the 1972 figure of $6,178 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were textile mill products, apparel and other textile products, transportation equipment, and food and kindred products. They accounted for approximately 38 percent of the State's 1977 employment. The order has shifted from 1972 when industry groups textile mill products, apparel and other textile products, food and kindred products, and chemicals and allied products accounted for approximately 39 percent of the State's employment.

The most important cities in the State ranked by employment were Richmond, Newport News, Lynchburg, and Martinsville. They accounted for approximately 25 percent of the State's 1977 manufacturing employment. These cities are independent of any county organization and, therefore, constitute primary divisions of the State and are treated as county equivalents in the census.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Virginia:						
1977	395.2	4,442,4	383.5	4,244.9	11.7	197.5
1972	375.4	2,826.0	365.8	2,720.3	9.6	105.7
1967	339.8	1,905.1	331.6	1,828.1	8.2	77.0
1963	302.1	1,432.0	295.3	1,377.1	6.8	54.9
STANDARD METROPOLITAN STATISTICAL AREAS						
Johnson City-Kingsport-Bristol, Tenn.-Va.:						
1977	54.5	655.6	54.0	649.5	.5	6.1
1972	49.3	400.3	49.3	400.3	-	-
Lynchburg:						
1977	27.3	317.7	24.7	279.2	2.6	38.5
1972	24.4	191.3	22.0	168.6	2.4	22.7
1967	20.1	115.3	18.7	101.7	1.4	13.9
1963	18.0	86.9	(D)	(D)	(D)	(D)
Newport News-Hampton:						
1977	34.3	447.3	33.7	438.8	.6	8.5
1972	35.6	322.0	35.0	315.9	.5	6.1
Norfolk-Virginia Beach-Portsmouth, Va.-N.C.:						
1977	26.7	326.2	26.0	317.1	.7	9.1
1972	27.6	206.6	27.2	202.0	.4	4.6
Petersburg-Colonial Heights-Hopewell:						
1977	11.5	155.2	11.3	152.5	.2	2.7
1972	12.1	100.0	(D)	(D)	(D)	(D)
Richmond:						
1977	53.4	732.8	48.9	646.5	4.5	86.3
1972	50.2	447.3	46.3	401.5	4.0	45.8
1967	51.4	337.8	47.0	294.6	4.4	43.2
1963	46.0	256.6	41.9	222.7	4.1	33.9
Roanoke:						
1977	20.4	225.2	(D)	(D)	(D)	(D)
1972	20.9	160.2	(D)	(D)	(D)	(D)
1967	16.9	95.9	(D)	(D)	(D)	(D)
1963	14.7	71.3	(D)	(D)	(D)	(D)
Washington, D.C.-Md.-Va.:						
1977	60.5	930.9	55.2	814.9	5.3	116.0
1972	54.9	588.9	52.2	535.0	3.4	53.9
1967	55.5	410.1	53.5	384.3	2.0	25.8
1963	50.1	324.3	47.0	291.3	3.1	33.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers							Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
VIRGINIA															
1977 CENSUS.	5 519	1 879	395.2	4 442.4	302.0	581.8	2 916.8	10 882.0	13 233.5	23 988.6	953.0	2.02	100	100	19 596.9
1976 ASM....	(NA)	(NA)	377.3	3 851.0	288.9	560.7	2 547.7	9 367.7	11 255.3	20 470.5	907.4	2.01	95	96	18 753.0
1975 ASM....	(NA)	(NA)	362.9	3 444.2	276.3	522.4	2 240.4	7 544.9	9 994.0	17 700.5	672.0	1.98	92	94	18 302.2
1974 ASM....	(NA)	(NA)	381.6	3 292.7	296.4	578.9	2 234.7	7 869.5	9 451.0	16 719.3	784.5	1.92	97	102	19 844.8
1973 ASM....	(NA)	(NA)	386.4	3 097.1	300.9	593.7	2 085.2	6 874.8	7 878.6	14 699.7	615.1	1.94	98	102	19 897.9
1972 CENSUS.	4 837	1 768	375.4	2 826.0	293.2	582.9	1 902.1	6 177.5	6 716.7	12 823.5	585.8	1.97	95	98	19 028.7
1971 ASM....	(NA)	(NA)	350.6	2 448.1	269.5	528.3	1 610.1	5 172.8	5 737.5	10 949.6	435.3	1.91	89	94	18 363.1
1970 ASM....	(NA)	(NA)	354.1	2 343.0	273.0	536.1	1 548.5	4 921.5	5 450.7	10 338.4	394.4	1.84	90	99	19 217.2
1969 ASM....	(NA)	(NA)	360.4	2 290.8	281.2	563.6	1 547.5	4 816.2	5 263.2	10 024.4	388.9	1.80	91	103	20 035.5
1968 ASM....	(NA)	(NA)	355.2	2 145.9	279.9	565.7	1 470.9	4 627.1	4 955.4	9 503.2	336.8	1.82	90	100	19 527.6
1967 CENSUS.	4 938	1 620	339.8	1 905.1	268.2	535.0	1 296.1	4 067.7	4 543.0	8 605.8	347.0	1.76	86	99	19 323.2
1966 ASM....	(NA)	(NA)	335.6	1 808.5	264.1	541.7	1 224.4	3 938.4	4 498.8	8 310.0	374.8	1.76	85	98	19 024.5
1965 ASM....	(NA)	(NA)	317.7	1 659.8	249.8	515.1	1 134.8	3 573.6	4 149.0	7 660.0	328.1	1.76	80	92	18 010.2
1964 ASM....	(NA)	(NA)	308.9	1 554.4	241.9	498.0	1 065.9	3 305.7	3 776.1	7 043.0	275.3	1.79	78	89	17 268.5
1963 CENSUS.	4 543	1 573	302.1	1 432.0	239.6	480.2	992.1	3 046.3	(NA)	(NA)	231.8	1.78	76	87	16 958.4
JOHNSON CITY-KINGSPORT-BRISTOL, TENN.-VA., SMSA															
1977 CENSUS.	429	182	54.5	655.6	40.0	77.4	407.6	1 505.0	1 880.0	3 362.5	102.0	.28	100	100	19 596.9
1972 CENSUS.	369	159	49.3	400.3	31.7	76.1	264.1	832.0	868.6	1 702.3	78.8	.26	91	98	19 028.7
RICHMOND SMSA															
1977 CENSUS.	775	292	53.4	732.8	34.5	64.8	397.0	1 992.6	2 394.6	4 359.1	126.5	.27	100	100	19 596.9
1976 ASM....	(NA)	(NA)	51.1	623.2	34.3	65.6	366.0	1 944.0	2 123.6	4 054.3	106.5	.27	96	96	18 753.0
1975 ASM....	(NA)	(NA)	48.6	544.4	32.1	61.5	312.4	1 430.1	1 823.6	3 263.2	140.4	.27	91	94	18 302.2
1974 ASM....	(NA)	(NA)	51.3	523.8	34.5	64.8	303.3	1 448.4	1 688.6	3 086.1	184.4	.26	96	102	19 844.8
1973 ASM....	(NA)	(NA)	52.1	489.2	35.1	68.5	277.6	1 229.0	1 360.7	2 583.4	175.9	.26	97	102	19 897.9
1972 CENSUS.	685	317	50.2	447.3	33.6	66.7	251.7	1 095.5	1 203.6	2 293.5	129.1	.26	94	98	19 028.7
1971 ASM....	(NA)	(NA)	49.0	405.2	31.2	60.7	217.2	952.2	1 081.8	2 040.2	73.6	.27	92	94	18 363.1
1970 ASM....	(NA)	(NA)	51.2	397.6	33.4	65.7	215.2	972.5	1 070.0	2 033.3	56.3	.27	96	99	19 217.2
1969 ASM....	(NA)	(NA)	51.9	384.2	34.1	68.5	207.5	863.6	1 066.2	1 937.5	55.2	.26	97	103	20 035.5
1968 ASM....	(NA)	(NA)	51.6	357.7	34.6	68.5	199.5	842.7	984.9	1 830.8	44.5	.26	97	100	19 527.6
1967 CENSUS.	595	259	51.4	337.8	34.5	68.6	186.0	777.3	965.0	1 741.1	68.6	.27	96	99	19 323.2
1966 ASM....	(NA)	(NA)	50.6	322.8	33.4	67.9	173.6	721.7	919.4	1 624.8	75.6	.27	95	98	19 024.5
1965 ASM....	(NA)	(NA)	49.2	300.9	32.6	66.1	164.7	640.3	894.8	1 528.6	62.2	.27	92	92	18 010.2
1964 ASM....	(NA)	(NA)	47.1	277.1	31.2	64.2	154.4	610.0	817.3	1 429.7	57.5	.27	88	89	17 268.5
1963 CENSUS.	577	241	46.0	256.6	31.4	62.4	146.7	558.8	(NA)	(NA)	53.6	.27	86	87	16 958.4
WASHINGTON, D.C.-MD.-VA., SMSA															
1977 CENSUS.	2 054	510	60.5	930.9	29.8	56.1	354.5	1 820.7	1 435.2	3 233.5	(D)	.31	100	100	19 596.9
1976 ASM....	(NA)	(NA)	61.8	876.7	32.7	59.0	361.2	1 645.5	1 298.8	2 952.2	89.5	.33	102	96	18 753.0
1975 ASM....	(NA)	(NA)	64.0	881.0	31.7	58.9	336.0	1 446.8	1 231.0	2 761.1	81.8	.35	106	94	18 302.2
1974 ASM....	(NA)	(NA)	62.8	796.9	31.5	59.1	328.6	1 386.1	1 289.6	2 580.9	71.8	.32	104	102	19 844.8
1973 ASM....	(NA)	(NA)	58.9	666.8	31.6	58.2	296.9	1 107.2	997.5	2 079.6	79.9	.30	97	102	19 897.9
1972 CENSUS.	1 727	480	54.9	588.9	29.4	54.6	262.4	1 068.2	834.6	1 885.4	58.8	.29	92	98	19 028.7
1971 ASM....	(NA)	(NA)	52.8	533.7	26.3	50.8	224.1	906.8	765.9	1 669.0	95.7	.29	87	94	18 363.1
1970 ASM....	(NA)	(NA)	55.2	516.6	27.2	54.0	219.8	881.4	743.7	1 623.3	53.3	.29	91	99	19 217.2
1969 ASM....	(NA)	(NA)	57.3	499.9	30.2	56.1	218.4	844.3	701.7	1 541.1	36.8	.29	95	103	20 035.5
1968 ASM....	(NA)	(NA)	55.1	433.3	30.4	57.9	204.5	769.8	631.4	1 392.6	37.3	.28	91	100	19 527.6
1967 CENSUS.	1 388	434	55.5	410.1	31.3	61.0	196.0	728.2	606.9	1 332.8	40.9	.29	92	99	19 323.2
1966 ASM....	(NA)	(NA)	55.1	401.6	29.6	59.0	179.0	615.5	541.5	1 140.8	26.6	.29	91	98	19 024.5
1965 ASM....	(NA)	(NA)	53.1	370.3	28.8	56.0	169.2	587.0	497.9	1 076.3	32.4	.29	88	92	18 010.2
1964 ASM....	(NA)	(NA)	52.5	366.8	26.3	51.5	152.7	559.9	479.6	1 036.9	23.2	.30	87	89	17 268.5
1963 CENSUS.	1 276	376	50.1	324.3	28.0	55.6	154.9	525.3	(NA)	(NA)	30.7	.30	83	87	16 958.4

(D) Withheld to avoid disclosing operations of individual operations. (NA) Not available.

[1] In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2] Including central administrative offices and auxiliaries (for definition, see appendix B).

[3] Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
VIRGINIA									
1977 CENSUS	11 241	76	1 926	5.01	55	74	27 536	41	18.70
1976 ASM	10 207	77	1 941	4.54	55	74	24 828	41	16.71
1975 ASM	9 491	76	1 891	4.29	56	76	20 791	46	14.44
1974 ASM	8 629	78	1 953	3.86	57	76	20 622	42	13.59
1973 ASM	8 015	78	1 973	3.51	54	75	17 792	45	11.58
1972 CENSUS	7 528	78	1 988	3.26	52	74	16 456	78	10.60
1971 ASM	6 983	77	1 960	3.05	52	75	14 754	47	9.79
1970 ASM	6 617	77	1 964	2.89	53	75	13 899	48	9.18
1969 ASM	6 356	78	2 004	2.75	53	75	13 363	48	8.55
1968 ASM	6 041	79	2 021	2.60	52	75	13 027	46	8.18
1967 CENSUS	5 607	79	1 995	2.42	53	75	11 971	47	7.60
1966 ASM	5 389	79	2 051	2.26	54	76	11 735	46	7.27
1965 ASM	5 224	79	2 062	2.20	54	76	11 248	46	6.94
1964 ASM	5 032	78	2 059	2.14	54	76	10 702	47	6.64
1963 CENSUS	4 740	79	2 004	2.07	(NA)	(NA)	10 084	47	6.34
JOHNSON CITY-KINGSPORT-BRISTOL, TENN.-VA., SMSA									
1977 CENSUS	12 035	73	1 935	5.27	56	75	27 628	44	19.44
1972 CENSUS	8 120	64	2 401	3.47	51	75	16 876	48	10.93
RICHMOND SMSA									
1977 CENSUS	13 710	65	1 878	6.13	55	72	37 283	37	30.75
1976 ASM	12 196	67	1 913	5.58	52	68	38 043	32	29.63
1975 ASM	11 202	66	1 916	5.08	56	73	29 426	38	23.25
1974 ASM	10 211	67	1 878	4.68	55	72	28 234	36	22.35
1973 ASM	9 390	67	1 952	4.05	53	72	23 589	40	17.94
1972 CENSUS	8 893	67	1 985	3.77	52	72	21 779	41	16.42
1971 ASM	8 269	64	1 946	3.58	53	73	19 433	43	15.69
1970 ASM	7 766	65	1 967	3.28	53	72	18 994	41	14.80
1969 ASM	7 403	66	2 009	3.03	55	75	16 640	44	12.61
1968 ASM	6 932	67	1 980	2.91	54	73	16 331	42	12.30
1967 CENSUS	6 572	67	1 988	2.71	55	75	15 123	43	11.33
1966 ASM	6 379	66	2 033	2.56	57	76	14 263	45	10.63
1965 ASM	6 116	66	2 028	2.49	59	78	13 014	47	9.69
1964 ASM	5 883	66	2 058	2.40	57	77	12 951	45	9.50
1963 CENSUS	5 578	68	1 987	2.35	(NA)	(NA)	12 148	46	8.96
WASHINGTON, D.C.-MD.-VA., SMSA									
1977 CENSUS	15 380	49	1 883	6.32	44	73	30 081	51	32.47
1976 ASM	14 186	53	1 804	6.12	44	74	26 626	53	27.89
1975 ASM	13 766	50	1 858	5.70	45	76	22 606	61	24.56
1974 ASM	12 689	50	1 876	5.56	50	81	22 072	57	23.45
1973 ASM	11 321	54	1 842	5.10	48	80	18 798	60	19.02
1972 CENSUS	10 592	53	1 857	4.81	44	76	19 074	56	19.42
1971 ASM	10 108	50	1 932	4.41	46	78	17 174	59	17.85
1970 ASM	9 359	49	1 985	4.07	46	78	15 967	59	16.32
1969 ASM	8 724	53	1 858	3.89	46	78	14 735	59	15.05
1968 ASM	7 864	55	1 905	3.53	45	76	13 971	56	13.30
1967 CENSUS	7 389	56	1 949	3.21	46	76	13 121	56	11.94
1966 ASM	7 289	54	1 993	3.03	47	83	11 171	65	10.43
1965 ASM	6 974	54	1 944	3.02	46	81	11 055	63	10.48
1964 ASM	6 987	50	1 958	2.97	46	82	10 665	66	10.87
1963 CENSUS	6 473	56	1 986	2.79	(NA)	(NA)	10 485	62	9.45

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	5 519	4 837
With 1 to 19 employees	do	3 640	3 069
With 20 to 99 employees	do	1 135	1 044
With 100 employees or more	do	744	724
All employees, average for year[1]	1,000	395.2	375.4
Payroll for year, all employees[1]	mil. dollars	4 442.4	2 826.0
Production workers:			
Average for year	1,000	302.0	293.2
March	do	296.5	285.0
May	do	299.3	288.6
August	do	305.0	297.2
November	do	306.6	302.1
Hours	millions	581.8	582.9
January to March	do	142.7	142.0
April to June	do	146.5	145.1
July to September	do	145.7	145.5
October to December	do	146.8	150.4
Wages	mil. dollars	2 916.8	1 902.1
Cost of materials, etc.[2]	do	13 233.5	6 716.7
Materials, parts, containers, etc., consumed	do	11 764.0	5 991.1
Resales	do	620.3	381.2
Fuels consumed	do	358.5	127.6
Purchased electric energy	do	263.9	91.7
Contract work	do	226.8	125.0
Value of shipments, including resales[2]	do	23 988.6	12 823.5
Value of resales	do	721.0	461.5
Value added by manufacture	do	10 882.0	6 177.5
Manufacturers' inventories:			
Beginning of year	do	4 182.2	2 273.9
Finished products	do	831.8	521.5
Work in process	do	801.5	402.0
Materials, supplies, fuel, etc.	do	2 548.9	1 350.4
End of year	do	4 483.8	2 612.0
Finished products	do	904.0	548.4
Work in process	do	879.1	495.3
Materials, supplies, fuel, etc.	do	2 700.7	1 568.3
Capital expenditures for plant and equipment	do	1 000.9	607.3
New capital expenditures	do	953.0	585.8
New buildings and other structures	do	173.2	177.4
New machinery and equipment	do	779.8	408.4
Used capital expenditures	do	47.9	21.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	7,828.1	1
New capital expenditures	966.2	2
Used capital expenditures	(58.9)	15
Retirements	228.6	2
End of year	8,624.6	1
Buildings and other structures:		
Beginning of year	2,178.6	1
New capital expenditures	174.3	3
Used capital expenditures	(18.5)	46
Retirements	60.7	2
End of year	2,310.8	1
Machinery and equipment:		
Beginning of year	5,649.4	1
New capital expenditures	791.9	2
Automobiles, trucks, etc., for highway use	32.0	(NA)
Computers and peripheral data processing equip.	9.7	(NA)
All other	561.4	(NA)
New machinery and equipment, n.s.k.	188.8	(NA)
Used capital expenditures	40.4	5
Retirements	168.0	2
End of year	6,313.7	1

Item	Amount (million dollars)	Standard error of estimate (percent)
Rental payments:		
Total	111.2	3
Buildings and other structures	40.8	4
Machinery and equipment	70.3	3
Depreciation charges during 1977:		
Total	661.0	1
Buildings and other structures	248.3	1
Machinery and equipment	412.7	2
Supplemental labor costs:		
Total	745.8	1
Legal costs	302.4	1
Voluntary costs	443.4	1
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	45.3	6
Response coverage ratio (percent)	59	(X)
Machinery	(141.2)	(A)
Response coverage ratio (percent)	59	(X)
Cost of purchased communication services	(79.7)	44
Response coverage ratio (percent)	65	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
(A) Indicates standard errors of 100 percent or more. Figures in parentheses have standard errors of 15 percent or more.
(NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E[1]	1977										1972	
		All establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
Virginia	-	5 519	1 879	395.2	4 442.4	302.0	581.8	2 916.8	10 882.0	13 233.5	23 988.6	953.0	375.4	6 177.5
STANDARD METROPOLITAN STATISTICAL AREAS														
Johnson City-Kingsport-Bristol, Tenn.-Va.	E1	429	182	54.5	655.6	40.0	77.4	407.6	1 505.0	1 880.0	3 362.5	102.0	49.3	832.0
Portion in Virginia	E1	119	55	8.7	94.6	6.6	12.8	63.2	217.4	348.7	563.1	19.8	6.4	91.2
Portion in Tennessee	E1	310	127	45.8	560.9	33.4	64.7	344.4	1 287.6	1 531.2	2 799.4	82.3	42.9	740.8
Lynchburg	-	264	103	27.3	317.7	18.8	37.0	186.4	708.8	533.3	1 242.4	40.9	24.4	391.6
Newport News-Hampton	-	218	73	34.3	447.3	28.5	55.9	362.8	667.1	963.4	1 631.2	54.4	35.6	461.4
Norfolk-Virginia Beach-Portsmouth, Va.-N.C.	-	537	190	26.7	326.2	19.4	38.9	211.3	1 083.3	1 850.2	2 950.9	50.1	27.6	551.7
Portion in Virginia	-	531	189	26.6	325.6	19.4	38.8	210.8	1 079.4	1 840.8	2 937.1	50.1	27.5	550.1
Portion in North Carolina	-	6	1	0.1	0.6	0.1	0.1	0.4	4.0	9.5	13.7	(Z)	0.1	1.6
Petersburg-Colonial Heights-Hopewell	-	108	45	11.5	155.2	9.0	16.2	114.1	660.6	577.5	1 227.2	96.0	12.1	369.7
Richmond	-	775	292	53.4	732.8	34.5	64.8	397.0	1 992.6	2 394.6	4 359.1	126.5	50.2	1 095.5
Roanoke	-	251	109	20.4	225.2	14.8	28.3	138.0	511.0	476.3	983.0	35.1	20.9	344.7
Washington, D.C.-Md.-Va.	-	2 054	510	60.5	930.9	29.8	56.1	354.5	1 820.7	1 435.2	3 233.5	(D)	54.9	1 068.2
Portion in Maryland	-	884	229	25.8	383.7	14.0	26.7	159.6	625.5	696.4	1 330.8	(D)	22.1	404.0
Portion in District of Columbia	E1	555	130	18.6	297.6	7.5	13.3	102.3	610.2	377.7	984.4	18.1	19.4	389.0
Portion in Virginia	E1	615	151	16.2	249.5	8.3	16.1	92.6	585.0	361.1	918.3	26.5	13.4	275.2
COUNTIES														
Accomack	-	63	18	3.6	23.7	3.2	5.1	18.8	66.8	151.4	218.5	4.5	2.6	21.8
Albemarle	-	30	9	4.1	43.6	3.1	6.5	28.4	118.8	146.4	262.0	(D)	3.3	56.2
Alleghany	-	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Amelia	E2	21	6	0.4	2.7	0.4	0.6	2.2	6.3	4.7	11.0	0.9	0.3	3.2
Amherst	-	32	7	0.7	9.3	0.4	0.8	4.4	16.6	22.1	38.5	(D)	(D)	(D)
Appomattox	-	29	8	1.2	8.4	1.0	1.9	6.9	14.5	15.8	30.4	(D)	0.9	10.7
Arlington	E2	110	22	1.3	19.5	0.7	1.3	7.8	25.0	13.8	38.9	1.8	1.4	19.1
Augusta	-	58	13	2.8	30.7	2.4	4.9	21.9	58.6	54.3	109.9	1.5	3.2	37.6
Bath	E2	8	2	0.2	1.1	0.1	0.3	0.8	1.6	0.6	2.2	0.1	0.1	0.7
Bedford	-	25	4	0.7	7.9	0.5	1.0	5.6	23.8	26.6	50.4	(D)	0.8	14.5
Bland	-	8	3	0.5	3.2	0.4	0.9	2.6	5.7	3.0	8.1	(D)	0.3	1.8
Botetourt	-	18	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Brunswick	E2	62	13	1.5	9.7	1.3	2.3	7.8	18.5	20.6	39.0	(D)	1.4	10.8
Buchanan	-	25	6	0.4	5.7	0.3	0.6	4.6	16.9	21.7	37.8	(D)	0.3	6.3
Buckingham	E1	57	6	0.5	3.5	0.5	0.9	2.8	8.2	7.0	15.1	0.6	0.6	4.5
Campbell	-	69	18	5.5	43.1	4.5	8.5	31.0	123.2	99.4	221.2	8.6	4.3	61.8
Caroline	E1	29	10	0.8	5.6	0.7	1.2	4.5	12.0	23.5	35.4	(D)	0.7	9.1
Carroll	-	25	9	1.8	13.6	1.7	3.2	12.1	24.8	27.2	51.1	0.7	1.1	14.7
Charles City	E3	5	-	(Z)	0.1	(Z)	(Z)	0.1	0.3	0.1	0.5	(D)	(Z)	(NA)
Charlotte	-	56	7	1.9	15.8	1.6	3.2	11.3	25.9	38.5	65.2	4.1	1.0	8.1
Chesterfield	-	91	35	7.4	109.3	5.2	9.9	69.5	240.4	359.3	593.4	16.4	16.3	374.3
Clarke	-	9	4	1.1	9.6	0.9	1.7	6.4	15.1	14.5	29.5	0.6	(D)	(D)
Craig	E4	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Culpeper	-	36	12	1.4	13.4	1.1	2.1	8.6	38.5	55.6	91.8	3.9	1.3	15.8
Cumberland	E3	12	-	(Z)	0.2	(Z)	(Z)	0.2	0.7	0.8	1.5	0.1	(Z)	(NA)
Dickenson	-	7	1	0.3	1.5	0.2	0.4	1.3	2.3	0.9	3.2	(D)	0.2	1.9
Dinwiddie	-	16	4	0.5	3.2	0.4	0.7	2.6	9.2	11.5	20.7	(D)	0.6	4.3
Essex	E1	27	6	1.2	9.4	1.0	1.8	7.1	13.5	28.1	40.0	1.7	0.8	13.2
Fairfax	-	261	69	7.6	107.8	4.3	8.4	48.7	193.3	158.4	345.9	11.5	6.0	103.9
Fauquier	E2	32	7	0.4	5.2	0.3	0.6	3.1	10.0	17.8	27.9	1.0	0.3	4.7
Floyd	E4	22	5	0.5	3.5	0.5	0.9	3.2	5.2	3.1	8.3	(D)	0.5	3.1
Fluvanna	-	24	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	10.5
Franklin	-	57	23	4.4	37.1	3.7	6.7	26.0	76.7	124.5	200.3	5.1	3.2	38.3
Frederick	-	13	6	1.5	20.1	1.3	2.9	17.0	52.9	99.4	150.7	3.3	1.4	11.9
Giles	-	19	9	2.7	32.4	2.2	4.6	24.8	90.7	93.3	182.1	5.5	2.7	47.4
Gloucester	E3	32	6	0.3	2.4	0.3	0.4	1.7	3.7	7.6	11.2	0.3	0.3	3.3
Goochland	E7	16	1	0.1	0.5	0.1	0.1	0.4	1.1	0.7	1.8	(D)	(Z)	(NA)
Grayson	-	14	8	2.0	11.7	1.8	3.1	9.9	20.0	23.2	43.0	0.5	2.5	18.3
Greene	E0	3	-	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	0.1	0.1	(Z)	(D)	(D)
Greensville	-	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Halifax	-	25	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hanover	E3	81	22	1.8	18.9	1.3	2.4	11.0	29.7	45.8	75.0	4.6	1.2	12.3
Henrico	-	143	55	9.2	128.5	5.3	10.1	55.6	258.1	253.2	515.3	22.6	4.0	57.4
Henry	-	55	26	11.2	99.6	9.9	21.0	80.1	269.4	269.1	532.1	14.9	12.4	215.1
Highland	-	5	2	0.2	1.2	0.2	0.3	1.1	2.0	1.2	3.2	(D)	0.2	1.5
Isle of Wight	-	20	8	3.9	38.5	3.0	4.6	25.3	82.1	246.9	328.9	7.9	2.9	45.4
James City	-	9	4	0.3	2.4	0.3	0.6	2.0	4.6	5.0	9.4	0.5	(D)	(D)
King and Queen	E8	24	-	0.1	0.7	0.1	0.1	0.5	1.3	2.2	3.5	0.2	0.1	0.6
King George	-	11	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.7
King William	-	25	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lancaster	E1	41	13	0.7	4.7	0.6	1.0	3.2	10.9	19.8	30.8	0.7	0.5	2.9
Lee	E2	15	6	0.6	3.3	0.5	0.9	2.9	4.8	4.5	9.2	0.2	0.3	1.5
Loudoun	E1	37	11	0.6	7.1	0.4	0.8	4.3	21.8	12.6	34.6	(D)	0.4	8.1
Louisa	E1	45	10	1.2	7.8	1.1	2.0	6.7	17.0	9.9	26.7	(D)	1.4	9.8
Lunenburg	-	36	13	2.0	14.2	1.9	3.3	11.7	29.5	46.2	75.6	1.2	1.7	14.5
Madison	-	15	3	0.4	2.3	0.4	0.6	2.0	11.2	1.8	13.0	(D)	0.4	2.5
Mathews	E3	10	2	0.1	0.7	0.1	0.2	0.5	1.0	0.8	1.7	(Z)	(Z)	(NA)
Mecklenburg	-	57	23	5.3	40.3	4.6	8.5	28.9	95.3	193.0	286.2	4.4	5.1	47.4
Middlesex	E1	26	7	0.3	2.4	0.3	0.5	1.9	5.3	8.5	13.8	0.4	0.2	2.7
Montgomery	-	38	16	3.2	30.3	2.5	5.1	20.3	66.5	74.2	139.4	2.4	2.3	29.7
Nelson	E3	32	3	0.3	2.4	0.3	0.5	2.0	3.8	3.1	6.8	0.5	0.3	2.3
New Kent	E3	24	2	0.2	1.3	0.1	0.2	1.0	1.9	3.9	5.8	0.2	0.2	1.2
Northampton	-	20	9	1.1	6.4	1.0	1.7	4.3	12.2	24.2	36.3	(D)	1.0	11.6
Northumberland	-	36	6	0.8	8.2	0.8	1.3	5.7	24.5	24.2	46.7	1.8	0.7	8.0
Nottoway	E1	32	12	1.2	8.7	1.1	2.1	7.4	17.4	29.2	46.1	1.7	1.0	9.7

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
COUNTIES—Con.														
Orange	–	28	12	1.9	15.6	1.7	3.2	12.1	44.8	32.7	77.2	3.8	2.1	26.0
Page	–	22	10	2.2	17.1	1.9	3.6	13.6	73.2	104.7	172.6	3.3	2.0	39.6
Patrick	–	44	6	1.8	15.6	1.6	3.4	12.1	29.7	29.9	59.0	1.2	(D)	(D)
Pittsylvania	–	55	18	7.0	84.2	5.6	11.5	60.9	219.1	507.4	728.1	29.8	4.6	104.9
Powhatan	E1	12	4	0.1	1.2	0.1	0.2	1.0	2.2	1.5	3.7	0.2	0.1	1.2
Prince Edward	–	27	8	1.3	9.0	1.1	2.0	6.9	19.8	19.0	38.8	3.1	1.6	11.7
Prince George	E1	11	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.3
Prince William	–	38	9	1.0	14.1	0.8	1.6	8.9	27.5	24.6	50.9	0.9	2.9	101.1
Pulaski	–	43	24	5.9	51.7	4.9	9.9	38.2	102.5	289.6	389.7	7.4	5.4	63.4
Rappahannock	–	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Richmond	–	20	6	0.6	4.4	0.5	0.9	3.6	16.6	17.1	33.6	0.6	0.6	8.0
Roanoke	–	51	23	3.2	36.2	2.3	4.7	23.3	84.0	85.0	169.7	13.6	1.6	26.0
Rockbridge	–	19	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Rockingham	–	69	25	5.2	49.9	4.3	8.3	36.8	153.5	272.8	421.2	25.1	4.8	73.7
Russell	E2	16	6	1.1	6.2	1.0	1.8	5.4	8.8	3.5	12.2	0.4	1.0	5.8
Scott	–	19	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Shenandoah	–	46	23	4.0	33.0	3.4	6.6	24.9	77.8	124.0	201.8	6.6	3.8	49.0
Smyth	–	42	17	4.7	36.9	4.0	6.9	25.1	75.2	71.2	148.3	6.6	5.3	39.8
Southampton	–	23	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Spotsylvania	–	20	7	1.8	22.0	1.4	2.8	15.4	44.8	68.3	111.8	4.5	0.6	9.1
Stafford	–	14	3	0.2	1.5	0.1	0.3	1.2	3.5	13.8	17.3	0.2	0.1	0.7
Surry	E5	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sussex	E1	23	6	0.8	8.1	0.6	1.4	6.3	19.2	31.6	51.3	1.4	0.6	8.2
Tazewell	–	57	22	2.4	25.4	1.8	3.3	15.8	44.0	77.3	125.6	4.7	2.6	29.4
Warren	–	18	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	44.4
Washington	–	41	15	2.6	25.3	2.1	3.8	17.6	60.4	85.4	147.1	8.6	(D)	(D)
Westmoreland	E2	38	12	0.7	4.5	0.6	0.9	3.3	9.7	17.5	27.0	(D)	0.7	6.9
Wise	E1	29	8	0.7	6.2	0.6	1.0	3.9	11.5	16.4	27.6	0.5	0.9	5.8
Wythe	–	34	15	2.1	15.5	1.8	3.5	11.7	35.2	31.0	64.5	4.4	1.6	16.3
York	–	15	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Alexandria (independent city)	E1	97	25	2.4	34.0	1.4	2.6	15.5	169.7	90.5	258.5	2.1	2.3	38.4
Bedford (independent city)	–	31	12	2.6	23.5	2.0	3.8	16.1	54.4	47.6	101.7	(D)	2.5	32.8
Bristol (independent city)	–	59	32	5.4	63.7	4.0	7.9	41.6	133.2	233.9	364.6	8.6	4.4	69.8
Buena Vista (independent city)	E1	15	10	1.5	15.3	1.2	2.4	10.5	48.1	65.3	112.6	2.3	1.4	29.1
Charlottesville (independent city)	–	68	20	3.4	37.7	2.4	4.5	20.7	70.8	79.5	146.8	5.0	4.0	62.4
Chesapeake (independent city)	–	61	28	3.1	34.4	2.4	4.4	23.8	89.1	212.5	298.3	7.8	2.1	42.8
Clifton Forge (independent city)	–	8	1	0.1	1.0	0.1	0.1	0.4	1.9	1.3	3.3	0.1	0.3	2.5
Colonial Heights (independent city)	–	10	5	0.4	4.1	0.3	0.6	2.2	15.3	10.8	23.3	(D)	0.1	3.0
Covington (independent city)	–	20	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Danville (independent city)	–	69	26	12.1	114.5	10.0	20.5	84.0	192.0	207.0	394.1	16.3	13.2	137.5
Emporia (independent city)	–	39	14	1.8	14.5	1.5	3.0	11.2	50.2	53.1	101.3	(D)	1.4	29.2
Fairfax (independent city)	E2	28	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	2.7
Falls Church (independent city)	E4	26	4	0.2	2.4	0.2	0.2	1.3	4.7	3.2	7.8	0.1	0.1	1.8
Franklin (independent city)	–	15	9	0.7	6.8	0.6	1.1	5.0	39.3	31.2	69.7	1.7	0.8	22.6
Fredericksburg (independent city)	–	38	15	1.4	12.8	1.2	2.2	9.4	27.8	42.8	69.6	1.1	3.0	69.4
Galax (independent city)	–	45	16	4.8	32.7	4.5	8.1	26.8	61.3	79.1	138.8	2.4	4.0	41.7
Hampton (independent city)	–	70	24	2.6	26.0	2.0	3.9	16.4	50.6	55.9	106.0	2.7	3.2	35.4
Harrisonburg (independent city)	–	45	23	3.6	33.2	2.8	5.5	22.5	89.3	136.2	226.2	6.6	4.2	79.4
Hopewell (independent city)	–	20	8	4.8	78.1	3.4	6.8	54.0	263.5	298.5	556.4	56.8	4.5	150.0
Lexington (independent city)	–	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Lynchburg (independent city)	–	135	70	19.9	256.9	12.9	25.7	144.1	554.5	395.9	952.4	25.0	18.7	316.3
Manassas (independent city)	–	17	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Manassas Park (independent city)	–	1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Martinsville (independent city)	–	66	30	14.4	143.0	12.1	22.5	99.7	261.7	248.7	507.2	15.7	12.2	131.6
Newport News (independent city)	–	78	32	28.9	382.1	24.8	48.7	325.2	555.8	446.8	1 004.7	(D)	30.1	352.9
Norfolk (independent city)	–	245	90	13.5	183.8	9.4	19.9	119.7	539.6	983.8	1 519.5	23.5	12.7	234.4
Norton (independent city)	–	6	4	0.2	2.1	0.1	0.3	0.9	6.3	7.6	13.9	0.3	0.3	3.1
Petersburg (independent city)	–	51	24	5.6	68.6	4.7	7.9	54.2	368.6	254.7	621.2	36.1	6.7	211.1
Poquoson (independent city)	E2	5	–	(Z)	0.2	(Z)	(Z)	0.1	0.4	0.5	0.8	(Z)	(NA)	(NA)
Portsmouth (independent city)	–	65	23	2.3	27.8	1.6	3.0	14.6	61.6	110.3	172.3	5.8	8.2	152.5
Radford (independent city)	–	21	11	5.8	71.0	4.5	8.5	48.2	150.5	80.4	230.3	(D)	7.2	94.4
Richmond (independent city)	–	403	173	34.8	473.0	22.4	41.8	258.4	1 459.0	1 730.0	3 163.6	82.5	28.6	650.0
Roanoke (independent city)	–	127	57	9.7	96.5	7.1	13.3	60.6	219.5	189.8	406.4	11.1	10.9	163.1
Salem (independent city)	–	51	22	7.0	88.6	4.9	9.4	51.3	197.9	195.5	391.8	10.0	7.5	139.1
South Boston (independent city)	–	19	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	40.5
Staunton (independent city)	–	18	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	12.0
Suffolk (independent city)	–	75	34	6.6	69.1	5.2	9.9	46.7	369.7	465.7	855.5	10.6	3.2	101.9
Virginia Beach (independent city)	E1	85	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	16.0
Waynesboro (independent city)	–	35	19	7.6	104.8	5.2	10.1	59.2	238.0	160.0	393.2	32.3	7.1	148.4
Williamsburg (independent city)	–	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Winchester (independent city)	–	59	26	6.3	67.5	4.9	9.5	45.9	155.0	167.8	321.5	11.8	4.4	32.6
CITIES														
Abingdon	–	23	5	0.7	5.1	0.6	1.1	3.7	10.0	15.7	25.6	0.3	(D)	(D)
Alexandria	E1	97	25	2.4	34.0	1.4	2.6	15.5	169.7	90.5	258.5	2.1	(NA)	(NA)
Altavista	–	15	10	4.1	32.5	3.2	6.2	22.4	95.5	63.5	157.8	6.5	3.2	45.8
Arlington (U)	E2	110	22	1.3	19.5	0.7	1.3	7.8	25.0	13.8	38.9	1.8	1.4	19.1
Ashland	E4	34	7	0.6	5.0	0.5	0.9	3.5	12.1	16.0	28.1	0.8	0.5	5.5
Bedford	–	31	12	2.6	23.5	2.0	3.8	16.1	54.4	47.6	101.7	(D)	(NA)	(NA)
Blacksburg	–	13	4	1.4	14.4	1.1	2.3	10.3	31.3	15.9	46.1	1.5	(D)	(D)
Blackstone	E1	22	9	0.9	6.2	0.8	1.5	5.2	12.6	12.0	24.2	1.6	0.8	8.4
Bluefield	–	22	12	0.8	9.1	0.6	1.2	5.7	18.8	28.2	47.6	1.5	1.0	15.0
Bridgewater	–	13	6	1.1	8.2	1.0	1.9	7.2	23.4	35.7	60.2	0.8	1.1	11.7

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
CITIES—Con.													
Bristol	-	59	32	5.4	63.7	4.0	7.9	41.6	133.2	233.9	364.6	8.6	(NA)	(NA)
Buena Vista	E1	15	10	1.5	15.3	1.2	2.4	10.5	48.1	65.3	112.6	2.3	(NA)	(NA)
Charlottesville	-	68	20	3.4	37.7	2.4	4.5	20.7	70.8	79.5	146.8	5.0	(NA)	(NA)
Chase City	-	16	7	1.3	7.2	1.2	2.3	6.2	16.6	14.5	31.5	(D)	1.4	9.1
Chesapeake	-	61	28	3.1	34.4	2.4	4.4	23.8	89.1	212.5	298.3	7.8	(NA)	(NA)
Christiansburg	-	19	10	1.5	11.1	1.1	2.2	7.2	23.1	41.0	62.4	0.6	(NA)	(NA)
Covington	-	20	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Culpeper	-	29	12	1.4	12.8	1.1	2.1	8.4	37.7	53.7	89.0	3.9	1.2	15.4
Danville	-	69	26	12.1	114.5	10.0	20.5	84.0	192.0	207.0	394.1	16.3	(NA)	(NA)
Emporia	-	39	14	1.8	14.5	1.5	3.0	11.2	50.2	53.1	101.3	(D)	(NA)	(NA)
Farmville	-	24	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	10.4
Franklin	-	15	9	0.7	6.8	0.6	1.1	5.0	39.3	31.2	69.7	1.7	(NA)	(NA)
Fredericksburg	-	38	15	1.4	12.8	1.2	2.2	9.4	27.8	42.8	69.6	1.1	(NA)	(NA)
Front Royal	-	16	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Galax	-	45	16	4.8	32.7	4.5	8.1	26.8	61.3	79.1	138.8	2.4	(NA)	(NA)
Hampton	-	70	24	2.6	26.0	2.0	3.9	16.4	50.6	55.9	106.0	2.7	(NA)	(NA)
Harrisonburg	-	45	23	3.6	33.2	2.8	5.5	22.5	89.3	136.2	226.2	6.6	(NA)	(NA)
Hopewell	-	20	8	4.8	78.1	3.4	6.8	54.0	263.5	298.5	556.4	56.8	(NA)	(NA)
Jefferson (U)	-	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Luray	-	16	5	1.4	11.4	1.2	2.1	8.9	52.2	80.5	128.3	(D)	1.2	32.6
Lynchburg	-	134	70	19.9	256.9	12.9	25.7	144.0	554.5	395.9	952.4	25.0	(NA)	(NA)
Manassas	-	17	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Marion	-	23	10	2.9	23.7	2.3	4.1	15.6	52.4	44.4	97.4	5.0	3.2	24.3
Martinsville	-	66	30	14.4	143.0	12.1	22.5	99.7	261.7	248.7	507.2	15.7	(NA)	(NA)
Newport News	-	78	32	28.9	382.1	24.8	48.7	325.2	555.8	446.8	1 004.7	(D)	(NA)	(NA)
Norfolk	-	245	90	13.5	183.8	9.4	19.9	119.7	539.6	983.8	1 519.5	23.5	(NA)	(NA)
Orange	-	15	8	1.3	9.4	1.1	2.0	7.1	29.1	17.1	45.9	(D)	0.8	7.4
Petersburg	-	51	24	5.6	68.6	4.7	7.9	54.2	368.6	254.7	621.2	36.1	(NA)	(NA)
Portsmouth	-	65	23	2.3	27.8	1.6	3.0	14.6	61.6	110.3	172.3	5.8	(NA)	(NA)
Pulaski	-	27	15	3.3	27.3	2.9	5.5	21.0	53.5	63.7	118.7	(D)	(D)	(D)
Radford	-	21	11	5.8	71.0	4.5	8.5	48.2	150.5	80.4	230.3	(D)	(NA)	(NA)
Richlands	E1	16	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	4.5
Richmond	-	403	173	34.8	473.0	22.4	41.8	258.4	1 459.0	1 730.0	3 163.6	82.5	(NA)	(NA)
Roanoke	-	127	57	9.7	96.5	7.1	13.3	60.6	219.5	189.8	406.4	11.1	(NA)	(NA)
Rocky Mount	-	32	16	3.6	30.3	3.1	5.7	21.8	62.2	93.1	154.2	4.7	2.3	26.5
Salem	-	51	22	7.0	88.6	4.9	9.4	51.3	197.9	195.5	391.8	10.0	(NA)	(NA)
Smithfield	-	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South Boston	-	19	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Hill	-	15	8	0.9	7.4	0.7	1.3	4.8	14.8	24.5	39.2	0.7	0.7	6.3
Staunton	-	18	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Suffolk	-	75	34	6.6	69.1	5.2	9.9	46.7	369.7	465.7	855.5	10.6	(NA)	(NA)
Vienna	-	17	3	0.6	7.1	0.5	1.0	5.4	12.0	5.8	17.1	0.5	(NA)	(NA)
Vinton	-	9	3	0.7	6.6	0.6	1.3	5.5	15.0	27.4	42.3	(D)	(D)	(D)
Virginia Beach	E1	85	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Waynesboro	-	35	19	7.6	104.8	5.2	10.1	59.2	238.0	160.0	393.2	32.3	(NA)	(NA)
West Point	-	14	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Williamsburg	-	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Winchester	-	59	26	6.3	67.5	4.9	9.5	45.9	155.0	167.8	321.5	11.8	(NA)	(NA)
Wytheville	-	19	11	1.6	12.1	1.3	2.6	8.8	29.6	27.4	55.5	3.8	1.4	14.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	**5 519**	**1 879**	**395.2**	**4 442.4**	**302.0**	**581.8**	**2 916.8**	**10 882.0**	**13 233.5**	**23 988.6**	**953.0**	**375.4**	**6 177.5**
20	**Food and kindred products**	-	**543**	**263**	**35.0**	**335.6**	**25.7**	**47.6**	**207.1**	**1 203.6**	**2 396.9**	**3 599.8**	**70.9**	**33.6**	**610.7**
201	Meat products	-	75	37	11.2	96.0	9.5	17.2	74.1	198.5	803.4	1 001.1	13.1	9.5	127.2
2011	Meat packing plants	-	43	14	4.7	48.1	3.8	6.5	36.4	88.2	407.8	495.8	6.8	4.2	63.6
2013	Sausages and other prepared meats	-	17	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2016	Poultry dressing plants	-	13	12	5.7	40.8	5.1	9.5	33.7	92.2	341.7	433.4	5.6	4.3	49.4
2017	Poultry and egg processing	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
202	Dairy products	-	38	28	2.3	28.2	0.9	2.1	9.6	102.6	255.6	357.4	6.0	3.0	60.1
2024	Ice cream and frozen desserts	-	7	4	0.2	3.5	0.1	0.2	1.3	5.5	22.3	27.8	(D)	0.3	4.8
2026	Fluid milk	-	28	21	1.9	22.7	0.7	1.5	6.7	62.3	189.7	251.5	3.6	2.5	49.9
203	Preserved fruits and vegetables	-	41	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	53.8
2033	Canned fruits and vegetables	-	30	9	1.6	11.9	1.4	2.6	7.4	28.8	48.2	77.0	3.3	EE	(D)
2038	Frozen specialties	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
204	Grain mill products	-	57	17	1.0	10.3	0.7	1.4	6.2	43.6	219.3	263.0	2.3	1.0	20.3
2041	Flour and other grain mill products	E1	18	4	0.2	2.5	0.2	0.3	1.8	16.2	52.1	68.4	0.1	BB	(D)
2048	Prepared feeds, n.e.c.	-	33	12	0.7	7.0	0.5	0.9	3.9	25.9	164.8	190.6	2.1	0.7	13.9
205	Bakery products	-	43	28	4.4	52.3	3.0	5.7	30.9	162.6	123.2	286.4	14.0	4.6	81.4
2051	Bread, cake, and related products	-	38	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2052	Cookies and crackers	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
206	Sugar and confectionery products	-	19	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	71.0
2065	Confectionery products	-	19	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
207	Fats and oils	-	13	9	0.7	9.5	0.6	1.1	5.6	47.6	147.8	191.0	2.2	0.5	18.2
2077	Animal and marine fats and oils	-	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
208	Beverages	-	61	43	3.8	47.5	1.7	3.6	19.4	182.0	249.3	429.7	11.1	3.8	85.7
2082	Malt beverages	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2086	Bottled and canned soft drinks	-	48	38	3.1	35.2	1.2	2.6	11.0	120.1	157.5	276.8	(D)	3.2	49.1
209	Miscellaneous foods and kindred products	E1	196	77	5.8	42.2	4.7	7.5	26.7	165.8	256.2	422.6	10.0	4.5	93.0
2092	Fresh or frozen packaged fish	E1	121	53	3.3	16.9	2.9	4.1	12.5	40.9	101.0	141.8	2.7	2.3	14.8
2099	Food preparations, n.e.c.	E1	48	19	2.2	22.9	1.6	3.1	13.0	120.1	143.9	264.8	6.8	1.5	70.8
21	**Tobacco products**	-	**19**	**16**	**14.9**	**206.2**	**11.4**	**19.7**	**145.2**	**1 100.0**	**1 312.3**	**2 412.1**	**(D)**	**14.3**	**580.5**
2111	Cigarettes	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2131	Chewing and smoking tobacco	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2141	Tobacco stemming and redrying	-	11	10	2.1	21.7	1.7	3.1	14.9	37.6	437.0	474.2	(D)	2.5	36.0
22	**Textile mill products**	-	**100**	**82**	**43.0**	**382.8**	**37.9**	**75.6**	**303.0**	**850.1**	**1 182.7**	**1 996.8**	**94.3**	**44.0**	**522.8**
2211	Weaving mills, cotton	-	6	5	3.1	26.2	2.8	5.6	22.7	57.1	62.8	118.8	6.0	FF	(D)
2221	Weaving mills, manmade fiber and silk	-	17	16	14.5	139.8	12.9	26.6	113.0	268.4	325.0	586.7	42.1	FF	(D)
2231	Weaving and finishing mills, wool	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2241	Narrow fabric mills	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
225	Knitting mills	-	29	24	11.8	90.0	10.5	19.7	69.7	212.5	183.7	389.8	9.6	13.9	127.0
2251	Women's hosiery, except socks	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	11.2
2252	Hosiery, n.e.c.	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	5.4
2253	Knit outerwear mills	-	10	10	7.1	51.8	6.3	11.2	38.0	151.1	90.7	237.2	4.2	6.6	52.3
2254	Knit underwear mills	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2257	Circular knit fabric mills	-	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2258	Warp knit fabric mills	-	4	3	1.0	8.7	0.9	1.9	7.5	13.5	33.5	47.3	(D)	CC	(D)
226	Textile finishing, except wool	-	13	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	76.3
2261	Finishing plants, cotton	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2262	Finishing plants, synthetics	-	9	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2269	Finishing plants, n.e.c.	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
227	Floor covering mills	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2272	Tufted carpets and rugs	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	72.7
228	Yarn and thread mills	-	12	11	3.7	29.6	3.5	6.8	25.9	50.3	85.9	135.6	(D)	0.8	10.3
2281	Yarn mills, except wool	-	6	5	1.0	8.2	0.9	1.9	7.1	15.6	32.9	47.9	0.8	2.9	62.4
2282	Throwing and winding mills	-	6	6	2.7	21.4	2.5	4.9	18.8	34.8	52.9	87.7	(D)		
229	Miscellaneous textile goods	-	8	5	0.6	5.8	0.6	1.1	4.9	14.7	41.0	56.2	1.4	0.8	7.3
2296	Tire cord and fabric	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
23	**Apparel and other textile products**	–	**287**	**214**	**37.0**	**232.6**	**33.8**	**59.3**	**194.7**	**475.8**	**324.2**	**788.5**	**13.8**	**37.4**	**280.6**
2311	Men's and boys' suits and coats	–	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.8	28.0
232	Men's and boys' furnishings	–	60	52	12.0	75.6	11.2	20.1	64.5	230.7	146.9	368.3	(D)	11.1	86.1
2321	Men's and boys' shirts and nightwear	–	28	25	5.1	32.3	4.8	8.8	27.1	67.1	41.0	104.8	1.8	FF	(D)
2322	Men's and boys' underwear	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2327	Men's and boys' separate trousers	–	9	7	1.9	11.1	1.8	3.0	9.9	26.9	7.9	35.6	0.8	2.8	17.7
2328	Men's and boys' work clothing	–	17	16	4.2	26.8	3.8	7.0	23.4	128.6	93.4	216.0	(D)	4.0	43.2
2329	Men's and boys' clothing, n.e.c.	–	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
233	Women's and misses' outerwear	–	102	87	12.6	72.1	11.7	19.7	62.8	103.5	35.3	139.1	(D)	12.9	91.7
2331	Women's and misses' blouses and waists	–	27	26	4.1	23.8	4.0	7.0	22.7	33.2	2.8	36.0	0.4	FF	(D)
2335	Women's and misses' dresses	E1	38	25	3.4	18.6	3.1	4.7	14.7	29.3	10.3	40.2	0.6	FF	(D)
2337	Women's and misses' suits and coats	–	7	7	0.8	4.4	0.7	1.2	3.6	6.7	1.9	8.4	(D)	CC	(D)
2339	Women's and misses' outerwear, n.e.c.	E1	30	29	4.2	25.3	3.9	6.7	21.8	34.2	20.3	54.4	1.2	4.5	27.3
234	Women's and children's undergarments	–	12	11	2.3	13.9	2.1	3.6	11.6	22.6	7.5	29.7	(D)	2.4	14.3
2341	Women's and children's underwear	–	12	11	2.3	13.9	2.1	3.6	11.6	22.6	7.5	29.7	(D)	2.4	14.3
235	Hats, caps, and millinery	–	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	3.4
2352	Hats and caps, except millinery	–	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
236	Children's outerwear	–	32	29	4.5	26.6	3.8	6.7	21.4	35.1	28.1	62.5	(D)	3.6	28.6
2361	Children's dresses and blouses	E1	24	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2369	Children's outerwear, n.e.c.	–	7	7	1.8	10.9	1.6	2.7	9.2	16.4	25.2	41.3	(D)	1.6	12.5
238	Miscellaneous apparel and accessories	–	9	6	0.7	4.4	0.6	1.2	3.4	9.8	4.8	14.3	(D)	1.3	8.5
2381	Fabric dress and work gloves	–	3	3	0.2	0.8	0.2	0.3	0.7	1.4	1.4	2.8	(D)	(NA)	(NA)
2385	Waterproof outer garments	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
239	Miscellaneous fabricated textile products	–	59	18	2.3	18.2	1.9	3.4	12.0	36.1	62.0	98.5	(D)	1.8	19.9
2392	House furnishings, n.e.c.	–	9	6	1.5	12.9	1.2	2.3	8.4	25.6	50.0	75.8	(D)	EE	(D)
2393	Textile bags	–	7	3	0.3	2.3	0.2	0.5	1.6	3.4	5.3	8.9	(D)	0.2	3.1
2399	Fabricated textile products, n.e.c.	E1	8	2	0.2	0.6	0.2	0.2	0.4	2.2	0.8	2.9	(Z)	AA	(D)
24	**Lumber and wood products**	**E1**	**1 424**	**226**	**21.9**	**188.2**	**18.7**	**34.9**	**137.9**	**415.3**	**668.9**	**1 081.5**	**45.6**	**21.7**	**275.0**
2411	Logging camps and logging contractors	E5	613	15	1.6	14.9	1.5	2.2	12.6	37.5	40.5	77.6	5.7	1.8	17.8
242	Sawmills and planing mills	E1	554	100	7.8	59.4	7.0	13.1	47.0	133.6	170.6	303.8	18.0	FF	(D)
2421	Sawmills and planing mills, general	E2	516	81	5.8	44.9	5.2	9.6	35.1	111.4	135.7	246.7	16.4	5.2	65.4
2426	Hardwood dimension and flooring	–	30	16	1.8	13.3	1.6	3.2	11.0	20.2	33.1	53.3	(D)	1.8	14.2
2429	Special product sawmills, n.e.c.	–	8	3	0.2	1.2	0.2	0.3	0.9	2.0	1.8	3.8	(D)	0.2	1.8
243	Millwork, plywood, and structural members	–	126	47	5.1	46.7	4.2	8.2	33.0	107.5	228.4	336.2	8.9	5.9	87.9
2431	Millwork	–	41	16	2.2	18.8	1.7	3.3	12.3	41.6	68.9	109.9	5.1	3.0	35.7
2434	Wood kitchen cabinets	–	45	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2435	Hardwood veneer and plywood	–	23	15	1.4	13.8	1.2	2.4	10.3	29.1	118.7	148.0	1.9	2.0	33.3
2436	Softwood veneer and plywood	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2439	Structural wood members, n.e.c.	E1	14	8	0.4	3.9	0.3	0.6	2.4	9.1	10.8	19.9	0.5	0.3	3.3
244	Wood containers	–	51	23	1.4	9.7	1.2	2.2	7.4	18.8	26.8	45.3	1.6	1.5	10.6
2441	Nailed wood boxes and shook	–	8	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2448	Wood pallets and skids	E1	38	16	0.9	6.8	0.8	1.4	5.1	12.3	20.3	32.4	1.4	0.9	6.4
2449	Wood containers, n.e.c.	–	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
245	Wood buildings and mobile homes	–	26	20	3.1	27.4	2.4	4.1	15.6	54.9	118.5	173.0	2.5	2.6	38.8
2451	Mobile homes	–	8	6	0.7	5.9	0.6	1.1	4.2	9.6	25.5	35.0	0.3	1.0	10.4
2452	Prefabricated wood buildings	–	18	14	2.4	21.5	1.8	2.9	11.4	45.2	93.0	138.0	2.3	1.7	28.4
249	Miscellaneous wood products	–	54	21	3.0	30.1	2.5	5.1	22.3	63.0	84.0	145.6	8.9	2.7	38.3
2491	Wood preserving	–	13	8	0.5	5.1	0.4	0.7	3.2	14.1	26.1	39.8	1.4	BB	(D)
2492	Particleboard	–	4	4	0.8	8.4	0.7	1.6	6.4	17.8	25.2	43.2	2.9	CC	(D)
2499	Wood products, n.e.c.	–	37	9	1.7	16.7	1.4	2.8	12.7	31.0	32.7	62.6	4.6	1.7	19.6

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
25	**Furniture and fixtures**	-	**175**	**85**	**25.5**	**200.3**	**22.4**	**44.6**	**156.5**	**406.1**	**390.2**	**796.6**	**(D)**	**27.2**	**341.7**
251	Household furniture	-	117	66	23.0	174.5	20.5	40.8	139.9	350.9	346.0	697.0	(D)	24.1	298.0
2511	Wood household furniture	-	67	37	18.1	136.1	16.5	33.3	111.8	267.0	255.1	525.3	(D)	18.6	236.2
2512	Upholstered household furniture	-	24	16	2.4	18.7	1.9	3.4	13.4	35.0	39.5	72.0	(D)	2.8	33.3
2514	Metal household furniture	-	6	3	1.3	11.0	1.1	2.1	7.8	26.1	23.5	49.0	(D)	1.7	18.0
2515	Mattresses and bedsprings	E1	16	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.0
2519	Household furniture, n.e.c.	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.1
252	Office furniture	-	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2522	Metal office furniture	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2531	Public building and related furniture	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
254	Partitions and fixtures	-	29	7	1.0	9.8	0.8	1.5	5.5	13.4	20.0	33.9	(D)	1.0	14.0
2541	Wood partitions and fixtures	-	29	7	1.0	9.8	0.8	1.5	5.5	13.4	20.0	33.9	(D)	BB	(D)
259	Miscellaneous furniture and fixtures	E1	15	5	0.4	4.4	0.3	0.5	3.2	7.4	7.1	14.5	(D)	CC	(D)
2591	Drapery hardware and blinds and shades	E2	10	3	0.2	1.8	0.2	0.3	1.2	3.8	3.8	7.6	(D)	AA	(D)
2599	Furniture and fixtures, n.e.c.	-	5	2	0.2	2.6	0.2	0.3	2.0	3.7	3.3	7.0	(D)	BB	(D)
26	**Paper and allied products**	-	**97**	**62**	**13.1**	**167.7**	**9.9**	**19.7**	**129.9**	**546.2**	**619.3**	**1 162.7**	**129.4**	**13.5**	**301.7**
2621	Paper mills, except building paper	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2631	Paperboard mills	-	9	9	4.7	81.0	3.5	7.3	57.6	253.2	231.2	483.3	47.1	4.8	134.9
264	Miscellaneous converted paper products	-	41	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2642	Envelopes	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2643	Bags, except textile bags	-	12	9	1.3	12.5	1.1	2.1	9.6	27.2	64.4	91.2	1.5	1.4	19.9
2649	Converted paper products, n.e.c.	-	12	2	0.2	2.2	0.1	0.3	1.5	8.0	11.0	18.7	0.3	(NA)	(NA)
265	Paperboard containers and boxes	-	44	30	3.5	41.7	2.8	5.4	28.1	86.0	165.1	250.3	(D)	3.7	54.6
2651	Folding paperboard boxes	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	13.4
2652	Setup paperboard boxes	E1	6	3	0.2	1.5	0.2	0.4	1.1	3.0	2.7	5.7	(D)	AA	(D)
2653	Corrugated and solid fiber boxes	-	25	20	2.2	26.8	1.7	3.2	16.9	53.9	93.2	146.9	(D)	2.2	33.1
2655	Fiber cans, drums, and similar products	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.0
2661	Building paper and board mills	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
27	**Printing and publishing**	**E1**	**800**	**163**	**17.5**	**198.1**	**10.6**	**19.4**	**105.2**	**523.7**	**275.9**	**796.4**	**33.0**	**15.7**	**228.3**
2711	Newspapers	-	127	47	6.5	70.4	2.8	4.9	27.4	143.6	57.8	201.4	7.7	6.4	93.7
2721	Periodicals	E3	59	2	0.2	3.2	(Z)	0.1	0.3	8.5	5.2	13.7	0.1	0.2	3.7
273	Books	E1	44	15	2.0	24.0	1.3	2.6	12.0	163.3	60.8	222.4	2.8	1.3	17.2
2731	Book publishing	E1	22	4	0.8	12.6	0.4	0.7	3.7	134.9	44.2	177.5	0.5	0.4	4.7
2732	Book printing	-	22	11	1.2	11.5	0.9	1.9	8.4	28.4	16.5	44.8	2.2	1.0	12.5
2741	Miscellaneous publishing	E1	31	7	0.9	9.3	0.2	0.4	1.6	17.5	6.4	24.1	0.1	0.9	10.9
275	Commercial printing	E1	448	59	5.6	65.1	4.3	7.9	44.6	126.7	96.4	222.3	17.5	4.9	68.7
2751	Commercial printing, letterpress	E5	238	10	1.1	11.4	0.9	1.7	7.9	22.2	14.7	36.8	1.1	2.0	23.9
2752	Commercial printing, lithographic	-	191	43	3.5	41.9	2.7	4.8	27.6	73.7	55.0	128.6	7.7	EE	(D)
2754	Commercial printing, gravure	-	11	5	1.0	11.0	0.7	1.3	8.6	29.1	26.2	54.6	8.7	CC	(D)
2761	Manifold business forms	-	14	11	1.0	10.6	0.7	1.4	7.6	33.5	39.2	71.9	2.6	0.8	14.7
278	Blankbooks and bookbinding	-	18	9	0.7	6.9	0.6	1.1	5.1	15.3	7.3	22.4	1.1	0.6	8.1
2782	Blankbooks and looseleaf binders	-	8	7	0.5	5.7	0.5	0.9	4.3	13.3	6.1	19.3	0.9	0.4	6.0
279	Printing trade services	E1	59	13	0.7	8.7	0.6	1.0	6.4	15.3	2.9	18.2	1.0	0.6	11.3
2791	Typesetting	E2	42	9	0.5	6.1	0.4	0.7	4.4	10.6	1.5	12.1	0.9	0.4	5.7
28	**Chemicals and allied products**	-	**155**	**60**	**33.4**	**510.4**	**22.7**	**44.1**	**305.1**	**1 470.9**	**1 322.4**	**2 765.8**	**145.3**	**33.0**	**844.4**
281	Industrial inorganic chemicals	-	20	7	3.1	49.9	1.8	4.0	28.0	169.9	46.4	213.6	5.3	2.6	87.1
2819	Industrial inorganic chemicals, n.e.c.	-	11	5	2.9	47.4	1.7	3.7	26.5	157.7	41.5	196.5	(D)	EE	(D)
282	Plastics materials and synthetics	-	12	10	19.1	292.4	14.1	27.1	191.8	707.4	757.5	1 457.9	82.5	18.3	419.0
2821	Plastics materials and resins	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2823	Cellulosic manmade fibers	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2824	Organic fibers, noncellulosic	-	7	7	14.8	239.3	10.5	19.7	149.2	575.9	532.2	1 104.9	73.4	FF	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
28	**Chemicals and allied products**—Con.													
283	Drugs	–	19	9	3.4	57.3	1.4	2.6	15.4	209.3	152.2	348.2	(D)	FF	(D)
2831	Biological products	E1	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2833	Medicinals and botanicals	–	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2834	Pharmaceutical preparations	–	12	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
284	Soaps, cleaners, and toilet goods	–	21	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2844	Toilet preparations	–	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2851	Paints and allied products	E1	14	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	14.0
286	Industrial organic chemicals	–	8	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2869	Industrial organic chemicals, n.e.c.	–	5	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
287	Agricultural chemicals	–	30	13	1.0	10.0	0.6	1.2	5.6	28.4	75.7	106.6	4.2	1.6	26.1
2874	Phosphatic fertilizers	–	4	4	0.4	4.1	0.3	0.5	2.4	11.5	29.2	42.1	(D)	CC	(D)
2875	Fertilizers, mixing only	–	16	9	0.5	5.1	0.3	0.6	2.8	13.5	43.7	58.5	1.4	CC	(D)
289	Miscellaneous chemical products	–	31	6	2.9	37.9	1.9	3.5	21.4	106.0	38.6	143.9	2.2	FF	(D)
2892	Explosives	–	3	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2899	Chemical preparations, n.e.c.	–	14	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
29	**Petroleum and coal products**	**–**	**22**	**4**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**BB**	**(D)**
2911	Petroleum refining	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
295	Paving and roofing materials	–	18	2	0.2	1.8	0.1	0.2	1.3	5.6	15.5	21.0	0.5	(NA)	(NA)
30	**Rubber and miscellaneous plastics products**	**–**	**86**	**48**	**11.9**	**145.6**	9.3	**19.1**	**103.7**	**418.5**	**411.3**	**827.5**	**45.4**	**11.2**	**255.6**
3011	Tires and inner tubes	–	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3069	Fabricated rubber products, n.e.c.	–	15	9	2.8	28.3	2.1	4.0	16.8	67.4	50.8	118.2	4.1	FF	(D)
3079	Miscellaneous plastics products	–	63	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.6	150.3
31	**Leather and leather products**	**–**	**27**	**18**	**3.6**	**21.5**	3.3	**5.7**	**17.0**	**45.0**	**49.6**	**94.6**	**2.3**	**4.1**	**27.8**
3111	Leather tanning and finishing	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
314	Footwear, except rubber	–	10	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3143	Men's footwear, except athletic	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3144	Women's footwear, except athletic	–	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3161	Luggage	–	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
32	**Stone, clay, and glass products**	**–**	335	109	**FF**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**10.6**	**190.7**
322	Glass and glassware, pressed or blown	–	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3229	Pressed and blown glass, n.e.c.	–	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3231	Products of purchased glass	–	12	7	0.8	7.4	0.6	1.2	4.9	15.7	22.5	39.5	0.3	0.9	16.3
3241	Cement, hydraulic	–	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
325	Structural clay products	–	10	8	0.7	5.9	0.6	1.2	4.6	18.8	9.9	29.3	0.9	1.0	13.4
3251	Brick and structural clay tile	–	9	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
327	Concrete, gypsum, and plaster products	–	253	71	5.6	62.7	4.2	8.6	41.5	147.2	163.7	307.9	14.1	6.0	109.4
3271	Concrete block and brick	–	33	12	0.6	7.1	0.4	0.9	3.8	15.4	20.0	35.3	1.1	1.0	18.0
3272	Concrete products, n.e.c.	–	86	30	2.2	23.5	1.8	3.6	15.8	45.9	34.6	78.1	4.3	2.1	28.9
3273	Ready-mixed concrete	–	127	24	2.1	23.7	1.5	3.0	15.5	56.8	78.5	134.7	7.5	2.3	43.8
3274	Lime	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3275	Gypsum products	–	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3281	Cut stone and stone products	–	11	3	0.2	1.4	0.2	0.3	1.0	3.3	1.6	4.9	(D)	0.2	2.1
329	Miscellaneous nonmetallic mineral products	–	24	13	2.0	21.0	1.6	3.0	15.6	55.2	37.7	92.3	3.3	1.5	22.4
3292	Asbestos products	–	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3293	Gaskets, packing, and sealing devices	–	5	3	0.6	5.4	0.5	0.8	3.7	13.0	9.8	22.2	1.3	AA	(D)
3295	Minerals, ground or treated	–	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	5.0
3299	Nonmetallic mineral products, n.e.c.	–	9	3	0.3	2.4	0.2	0.4	1.8	7.8	7.7	15.8	0.2	AA	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
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33	**Primary metal industries**	-	**64**	**34**	**10.5**	**143.5**	**8.9**	**17.7**	**114.8**	**311.9**	**495.7**	**802.5**	**72.3**	**7.9**	**137.3**
331	Blast furnace and basic steel products	-	14	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	19.9
3312	Blast furnaces and steel mills	-	10	3	0.9	13.6	0.8	1.5	12.1	34.1	47.4	80.6	(D)	CC	(D)
3315	Steel wire and related products	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
332	Iron and steel foundries	-	26	15	6.9	89.9	6.0	11.9	73.3	191.0	144.0	334.1	(D)	5.0	82.6
3321	Gray iron foundries	-	23	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3324	Steel investment foundries	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3341	Secondary nonferrous metals	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	4.5
335	Nonferrous rolling and drawing	-	12	9	2.0	30.9	1.6	3.2	24.0	60.5	239.9	298.1	5.5	1.8	26.4
3353	Aluminum sheet, plate, and foil	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3354	Aluminum extruded products	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3357	Nonferrous wire drawing and insulating	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
34	**Fabricated metal products**	-	**297**	**118**	**15.5**	**190.0**	**11.7**	**23.6**	**129.3**	**419.3**	**665.6**	**1 079.4**	**18.9**	**12.7**	**235.6**
341	Metal cans and shipping containers	-	5	4	1.5	24.7	1.4	3.1	22.1	65.0	160.0	221.5	1.6	CC	(D)
3411	Metal cans	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
342	Cutlery, hand tools, and hardware	-	11	5	1.2	13.1	1.0	2.0	10.4	38.8	16.7	55.5	(D)	CC	(D)
3421	Cutlery	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3423	Hand and edge tools, n.e.c.	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3429	Hardware, n.e.c.	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
343	Plumbing and heating, except electric	E1	15	4	0.5	5.7	0.4	0.7	3.5	21.6	14.1	35.7	0.7	0.5	10.8
3433	Heating equipment, except electric	-	14	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
344	Fabricated structural metal products	-	158	74	8.6	105.0	6.0	12.2	62.6	188.7	237.7	424.4	6.8	7.5	137.7
3441	Fabricated structural metal	-	47	24	2.5	30.5	1.8	3.7	18.2	58.0	79.1	131.6	2.1	3.1	53.7
3442	Metal doors, sash, and trim	-	19	11	1.5	14.0	1.1	2.1	8.1	31.7	36.3	66.7	1.6	1.4	19.1
3443	Fabricated plate work (boiler shops)	-	19	14	2.7	37.7	1.7	3.6	21.7	55.8	72.5	132.8	1.9	1.5	43.9
3444	Sheet metal work	-	40	13	0.7	9.2	0.6	1.2	6.7	16.5	12.5	28.7	0.6	CC	(D)
3446	Architectural metal work	E2	21	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3448	Prefabricated metal buildings	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3449	Miscellaneous metal work	-	8	7	0.4	5.7	0.3	0.7	3.5	10.5	24.7	35.2	0.3	CC	(D)
345	Screw machine products, bolts, etc.	-	7	5	0.7	5.7	0.6	1.1	4.3	17.7	27.3	43.9	(D)	BB	(D)
3452	Bolts, nuts, rivets, and washers	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
346	Metal forgings and stampings	E1	17	4	0.5	3.9	0.4	0.8	3.0	17.8	17.0	33.8	(D)	0.3	3.5
3465	Automotive stampings	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3469	Metal stampings, n.e.c.	E4	15	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
347	Metal services, n.e.c.	E4	29	6	0.4	3.4	0.3	0.6	2.5	6.1	3.2	9.2	0.1	0.2	2.7
3471	Plating and polishing	E3	19	5	0.3	2.5	0.2	0.4	1.8	4.6	2.0	6.6	0.1	AA	(D)
349	Miscellaneous fabricated metal products	-	50	15	2.1	28.2	1.7	3.2	20.5	63.3	189.2	254.5	3.2	1.7	30.2
3494	Valves and pipe fittings	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3497	Metal foil and leaf	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3499	Fabricated metal products, n.e.c.	-	29	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.6
35	**Machinery, except electrical**	-	**414**	**123**	**17.4**	**219.9**	**12.3**	**24.2**	**133.9**	**436.2**	**463.5**	**913.3**	**62.7**	**10.6**	**191.6**
352	Farm and garden machinery	-	10	4	1.0	9.6	0.8	1.5	6.2	24.0	21.4	46.9	1.7	CC	(D)
3523	Farm machinery and equipment	-	9	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3524	Lawn and garden equipment	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
353	Construction and related machinery	-	64	32	5.3	66.6	3.8	7.4	41.8	155.2	199.0	355.5	(D)	1.8	40.8
3531	Construction machinery	-	8	4	0.8	12.7	0.6	1.2	7.6	40.9	36.3	73.3	1.2	BB	(D)
3532	Mining machinery	-	34	16	2.1	25.5	1.5	2.8	15.3	50.2	99.3	152.4	3.8	BB	(D)
3535	Conveyors and conveying equipment	-	11	6	0.8	10.4	0.6	1.2	6.5	15.8	23.9	39.9	0.4	BB	(D)
3536	Hoists, cranes, and monorails	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3537	Industrial trucks and tractors	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
354	Metalworking machinery	-	32	12	0.8	11.4	0.7	1.2	7.9	11.9	52.9	68.2	1.1	0.9	17.4
3542	Machine tools, metal forming types	E1	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures	E3	18	5	0.3	3.8	0.2	0.4	2.6	6.4	1.6	8.0	0.5	0.3	4.6

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
35	**Machinery, except electrical**—Con.														
355	Special industry machinery	-	36	20	1.9	27.0	1.2	2.4	14.5	36.3	28.9	73.7	2.8	1.6	39.1
3551	Food products machinery	-	6	5	0.6	8.8	0.3	0.5	3.3	16.7	8.7	24.2	(D)	BB	(D)
3555	Printing trades machinery	-	7	4	0.4	5.3	0.2	0.5	3.4	9.3	5.2	15.0	1.0	AA	(D)
3559	Special industry machinery, n.e.c.	-	14	6	0.8	10.8	0.5	1.0	6.3	14.7	12.7	29.0	0.6	0.6	10.5
356	General industrial machinery	-	35	13	1.5	20.6	1.1	2.1	12.2	57.4	46.4	101.8	(D)	0.9	22.3
3562	Ball and roller bearings	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3564	Blowers and fans	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3568	Power transmission equipment, n.e.c.	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3569	General industrial machinery, n.e.c.	-	16	7	0.5	5.9	0.3	0.5	2.8	10.9	6.1	16.1	2.4	(NA)	(NA)
357	Office and computing machines	-	10	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	2.6
3573	Electronic computing equipment	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
358	Refrigeration and service machinery	-	21	12	2.4	28.4	1.5	3.0	15.0	40.9	63.8	105.2	6.1	2.3	28.1
3585	Refrigeration and heating equipment	-	13	8	2.0	25.3	1.3	2.5	13.2	35.0	57.6	92.9	(D)	EE	(D)
3589	Service industry machinery, n.e.c.	E2	8	4	0.3	3.2	0.2	0.5	1.9	6.0	6.2	12.3	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	205	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	24.6
3599	Machinery, except electrical, n.e.c.	E2	205	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	24.6
36	**Electric and electronic equipment**	-	**175**	**68**	**28.1**	**373.0**	**17.9**	**35.5**	**176.5**	**679.7**	**655.2**	**1 506.3**	**47.3**	**29.0**	**557.5**
361	Electric distributing equipment	-	15	8	2.1	25.6	1.5	3.1	14.3	66.3	65.2	127.2	2.4	1.6	26.2
3612	Transformers	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3613	Switchgear and switchboard apparatus	-	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
362	Electrical industrial apparatus	-	28	14	5.9	77.2	3.9	7.3	40.1	189.1	107.8	294.1	7.2	6.0	108.4
3621	Motors and generators	-	12	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3622	Industrial controls	-	12	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3629	Electrical industrial apparatus, n.e.c.	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
363	Household appliances	-	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3634	Electric housewares and fans	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3635	Household vacuum cleaners	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
364	Electric lighting and wiring equipment	-	9	3	0.8	8.2	0.6	1.1	5.1	25.0	22.7	46.8	0.7	BB	(D)
3641	Electric lamps	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3648	Lighting equipment, n.e.c.	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
365	Radio and TV receiving equipment	-	7	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3651	Radio and TV receiving sets	-	3	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3652	Phonograph records and prerecorded tape	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
366	Communication equipment	-	47	23	12.1	188.0	5.9	12.0	64.2	432.9	227.3	629.7	28.4	8.9	176.6
3661	Telephone and telegraph apparatus	-	8	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3662	Radio and TV communication equipment	-	39	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
367	Electronic components and accessories	-	45	11	2.5	21.2	2.1	4.3	16.2	42.4	24.4	65.8	2.1	4.8	113.8
3675	Electronic capacitors	-	4	4	1.5	12.3	1.4	2.9	10.6	23.8	10.7	34.3	0.8	1.5	15.9
3679	Electronic components, n.e.c.	E1	34	5	0.8	7.6	0.6	1.2	4.8	12.4	11.1	23.5	1.1	1.1	12.1
369	Miscellaneous electrical equipment and supplies	-	19	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3699	Electrical equipment and supplies, n.e.c.	-	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
37	**Transportation equipment**	-	**131**	**49**	**36.7**	**509.8**	**31.8**	**64.1**	**427.8**	**953.5**	**1 274.0**	**2 219.0**	**61.1**	**FF**	**(D)**
371	Motor vehicles and equipment	-	46	21	7.6	109.9	6.0	12.5	78.3	407.6	893.7	1 292.5	(D)	4.0	131.8
3711	Motor vehicles and car bodies	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3713	Truck and bus bodies	-	15	8	0.8	8.7	0.6	1.1	5.3	15.2	24.2	39.2	0.4	(NA)	(NA)
3714	Motor vehicle parts and accessories	-	25	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3715	Truck trailers	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
373	Ship and boat building and repairing	-	65	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3731	Ship building and repairing	-	18	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3732	Boat building and repairing	E1	47	10	0.9	9.4	0.7	1.4	6.7	14.5	16.1	29.7	1.7	0.4	5.4
3743	Railroad equipment	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Totel (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollers)	New capital expenditures (million dollars)	All employees[2] (1,000)	Velue added by menufacture (million dollars)
37	**Transportation equipment**—Con.														
376	Guided missiles, space vehicles, parts	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3764	Space propulsion units and parts	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
379	Miscellaneous transportation equipment	-	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3792	Travel trailers and campers	-	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
38	**Instruments and related products**	-	**80**	**27**	**4.1**	**47.7**	**2.6**	**5.2**	**24.8**	**91.7**	**55.6**	**144.4**	**6.2**	**EE**	**(D)**
3811	Engineering and scientific instruments	-	6	4	0.3	3.7	0.2	0.3	2.1	9.0	3.5	11.1	0.3	(NA)	(NA)
382	Measuring and controlling devices	-	20	7	1.1	17.5	0.7	1.4	9.9	26.8	9.8	36.8	0.9	AA	(D)
3823	Process control instruments	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3825	Instruments to measure electricity	-	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3832	Optical instruments end lenses	-	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
384	Medical instruments and supplies	E1	25	5	0.6	7.0	0.3	0.6	2.6	12.8	12.2	24.9	0.6	0.3	5.3
3841	Surgical and medical instruments	E1	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3842	Surgical appliances and supplies	E2	16	2	0.2	2.0	0.2	0.3	1.4	3.0	6.2	9.3	0.1	(NA)	(NA)
3851	Ophthalmic goods	-	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.0
3861	Photographic equipment and supplies	E1	11	3	0.3	4.6	0.1	0.2	1.5	9.6	5.9	15.4	0.3	BB	(D)
3873	Watches, clocks, and watchcases	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
39	**Miscellaneous manufacturing industries**	-	**130**	**29**	**3.5**	**31.9**	**2.7**	**5.2**	**22.1**	**70.3**	**77.9**	**146.7**	**2.5**	**3.9**	**39.3**
394	Toys and sporting goods	-	19	5	0.7	6.7	0.6	1.1	4.1	16.3	15.1	31.6	(D)	EE	(D)
3949	Sporting and athletic goods, n.e.c.	-	14	4	0.7	6.5	0.5	1.0	4.0	15.9	14.9	30.8	0.6	EE	(D)
395	Pens, pencils, office and art supplies	-	11	3	0.2	1.4	0.1	0.2	0.8	2.5	3.7	6.1	(D)	0.3	3.1
396	Costume jewelry and notions	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3964	Needles, pins, and fasteners	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
399	Miscellaneous manufactures	E1	83	15	1.6	15.2	1.2	2.2	10.7	33.0	41.9	74.5	(D)	1.4	21.7
3993	Signs and advertising displays	E1	46	7	0.7	6.7	0.5	0.9	4.4	11.4	7.8	19.0	(D)	0.7	9.4
3999	Manufacturing industries, n.e.c.	E1	30	5	0.7	7.5	0.6	1.1	5.6	20.1	30.5	50.4	0.8	0.5	9.7
–	**Administrative and auxiliary**	-	**158**	**81**	**11.7**	**197.5**	-	-	-	-	-	-	-	**(NA)**	**(NA)**

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices end auxiliaries (for definition, see eppendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obteined from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small esteblishments. This technique wes also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups end industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data ere shown for individuel industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Johnson City-Kingsport-Bristol, Tenn.-Va., SMSA	–	429	182	54.5	655.6	40.0	77.4	407.6	1 505.0	1 880.0	3 362.5	102.0	49.3	832.0
20	Food and kindred products	–	46	19	2.8	32.2	1.7	3.7	15.8	78.4	166.7	245.1	5.1	(NA)	(NA)
205	Bakery products	–	7	6	1.0	12.6	0.6	1.3	5.1	30.0	23.7	53.7	(D)	(NA)	(NA)
2051	Bread, cake, and related products	–	7	6	1.0	12.6	0.6	1.3	5.1	30.0	23.7	53.7	(D)	(NA)	(NA)
208	Beverages	–	5	3	0.3	3.3	0.1	0.2	0.7	9.0	10.6	19.6	(D)	(NA)	(NA)
2086	Bottled and canned soft drinks	–	5	3	0.3	3.3	0.1	0.2	0.7	9.0	10.6	19.6	(D)	(NA)	(NA)
22	Textile mill products	–	12	11	3.7	34.1	3.4	6.9	29.6	63.8	105.8	165.3	(D)	(NA)	(NA)
23	Apparel and other textile products	–	32	26	4.6	27.6	4.2	7.0	22.6	61.1	41.3	100.4	1.8	(NA)	(NA)
232	Men's and boys' furnishings	–	11	9	2.2	13.6	2.0	3.4	11.1	30.7	24.0	53.3	(D)	(NA)	(NA)
233	Women's and misses' outerwear	–	10	9	1.0	5.7	0.9	1.5	4.6	16.4	8.6	24.8	(D)	(NA)	(NA)
234	Women's and children's undergarments	–	5	5	1.1	7.0	1.0	1.7	5.7	11.9	7.2	18.6	(D)	(NA)	(NA)
2341	Women's and children's underwear	–	5	5	1.1	7.0	1.0	1.7	5.7	11.9	7.2	18.6	(D)	(NA)	(NA)
24	Lumber and wood products	E1	65	9	1.1	8.0	0.9	1.7	6.1	14.8	20.6	35.4	0.8	(NA)	(NA)
242	Sawmills and planing mills	–	31	4	0.7	5.0	0.6	1.2	4.0	8.4	8.8	17.2	0.5	(NA)	(NA)
2426	Hardwood dimension and flooring	–	5	4	0.6	4.5	0.6	1.1	3.6	7.2	7.3	14.4	(D)	(NA)	(NA)
25	Furniture and fixtures	–	11	6	1.5	10.6	1.3	2.4	8.2	19.2	16.0	35.1	1.5	(NA)	(NA)
2511	Wood household furniture	–	3	3	0.8	5.1	0.7	1.4	4.1	10.8	8.7	19.4	(D)	(NA)	(NA)
27	Printing and publishing	–	60	13	4.5	48.5	3.4	6.3	33.6	97.4	62.2	161.2	2.7	(NA)	(NA)
30	Rubber and miscellaneous plastics products	–	12	6	0.8	7.9	0.7	1.3	5.3	20.1	47.0	68.2	0.8	(NA)	(NA)
3079	Miscellaneous plastics products	–	9	3	0.4	3.2	0.3	0.6	2.1	7.7	7.4	15.1	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	33	14	2.4	25.9	2.0	4.0	20.7	57.0	46.0	105.1	6.4	(NA)	(NA)
327	Concrete, gypsum, and plaster products	–	23	8	0.4	4.3	0.3	0.5	2.8	11.2	11.9	23.4	(D)	(NA)	(NA)
33	Primary metal industries	–	13	7	1.2	14.0	1.0	2.0	9.8	31.8	47.5	79.8	2.3	(NA)	(NA)
332	Iron and steel foundries	E1	5	3	0.3	3.2	0.3	0.5	2.4	4.9	3.1	8.0	0.3	(NA)	(NA)
34	Fabricated metal products	–	36	19	4.7	60.0	3.5	6.6	40.1	134.3	170.5	298.8	7.0	(NA)	(NA)
342	Cutlery, hand tools, and hardware	–	6	6	0.6	5.6	0.5	1.0	4.2	13.9	8.5	22.4	(D)	(NA)	(NA)
344	Fabricated structural metal products	–	15	5	1.4	19.3	0.9	1.6	10.9	28.4	31.2	62.5	0.9	(NA)	(NA)
35	Machinery, except electrical	–	34	12	3.4	48.1	2.7	5.5	28.4	335.5	158.1	482.9	9.1	(NA)	(NA)
356	General industrial machinery	–	3	3	0.9	10.0	0.7	1.4	7.8	32.4	31.9	65.2	1.3	(NA)	(NA)
36	Electric and electronic equipment	–	14	9	4.9	53.2	2.8	5.4	23.2	118.7	87.1	205.1	7.2	(NA)	(NA)
363	Household appliances	–	4	4	1.6	14.9	1.3	2.6	10.2	43.0	54.6	98.0	(D)	(NA)	(NA)
37	Transportation equipment	–	10	4	0.5	6.6	0.4	0.9	4.5	15.5	19.6	34.9	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	5	4	0.5	6.1	–	–	–	–	–	–	–	(NA)	(NA)
	Lynchburg SMSA	–	264	103	27.3	317.7	18.8	37.0	186.4	708.8	533.3	1 242.4	40.9	24.4	391.6
20	Food and kindred products	–	20	11	1.0	12.3	0.6	1.1	5.0	58.9	54.9	113.6	1.8	1.0	19.3
23	Apparel and other textile products	–	23	22	2.8	18.2	2.3	4.3	13.4	31.4	30.5	61.5	1.4	2.7	27.1
233	Women's and misses' outerwear	–	9	9	0.9	5.8	0.9	1.4	4.9	9.3	4.4	13.7	0.1	(NA)	(NA)
24	Lumber and wood products	E1	88	9	0.7	4.9	0.6	1.1	4.0	12.3	16.9	29.1	0.9	0.6	6.9
242	Sawmills and planing mills	–	30	7	0.5	3.6	0.5	0.9	2.9	9.5	13.5	22.9	0.7	0.5	5.2
2426	Hardwood dimension and flooring	–	6	4	0.4	2.4	0.3	0.6	2.0	7.1	9.0	16.1	0.2	(NA)	(NA)
26	Paper and allied products	–	6	4	0.7	11.8	0.6	1.3	8.6	29.1	35.6	64.5	(D)	0.8	12.3
27	Printing and publishing	–	25	6	1.0	12.4	0.7	1.3	8.2	30.9	18.0	48.7	(D)	(NA)	(NA)
28	Chemicals and allied products	–	8	4	3.1	42.9	1.9	4.1	25.0	151.1	37.3	186.8	2.9	2.4	73.5
32	Stone, clay, and glass products	–	14	4	0.3	2.9	0.3	0.5	1.9	6.2	5.7	11.9	0.4	(NA)	(NA)
35	Machinery, except electrical	–	21	8	1.3	18.0	0.9	2.0	11.8	28.1	40.5	68.8	(D)	0.6	10.0
36	Electric and electronic equipment	–	8	5	4.2	55.4	2.8	5.2	28.8	128.9	76.1	202.6	(D)	4.9	94.2
--	Administrative and auxiliary	–	11	7	2.6	38.5	–	–	–	–	–	–	–	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Newport News-Hampton SMSA	-	**218**	**73**	**34.3**	**447.3**	**28.5**	**55.9**	**362.8**	**667.1**	**963.4**	**1 631.2**	**54.4**	**35.6**	**461.4**
20	Food and kindred products	-	36	20	1.7	17.6	1.3	2.4	12.2	79.9	139.2	218.6	6.1	2.0	44.2
209	Miscellaneous foods and kindred products	E2	27	13	0.8	3.8	0.7	1.1	2.8	9.5	24.3	33.8	0.7	1.1	8.1
22	Textile mill products	-	3	3	0.4	2.4	0.3	0.6	1.9	6.2	8.2	14.2	(D)	0.3	3.7
23	Apparel and other textile products	E1	12	3	0.3	1.9	0.3	0.6	1.7	2.6	0.4	3.0	(Z)	0.5	1.7
24	Lumber and wood products	E1	25	7	0.4	3.2	0.3	0.6	2.5	6.6	8.8	15.1	0.6	0.6	6.9
27	Printing and publishing	-	25	5	0.9	10.0	0.5	1.0	6.1	19.0	11.0	30.0	0.7	0.9	12.2
32	Stone, clay, and glass products	-	18	6	0.3	2.4	0.2	0.5	1.8	5.1	8.5	13.4	0.5	0.5	6.2
35	Machinery, except electrical	-	21	6	0.7	9.9	0.5	0.9	6.2	18.7	17.8	35.8	0.8	0.5	7.3
39	Miscellaneous manufacturing industries	-	7	3	0.5	5.0	0.4	0.9	3.9	10.7	9.5	19.4	(D)	(NA)	(NA)
	Norfolk-Virginia Beach-Portsmouth, Va.-N.C., SMSA	-	**537**	**190**	**26.7**	**326.2**	**19.4**	**38.9**	**211.3**	**1 083.3**	**1 850.2**	**2 950.9**	**50.1**	**27.6**	**551.7**
20	Food and kindred products	-	76	50	5.5	54.0	3.7	7.3	32.5	375.5	521.1	900.1	15.9	5.8	174.7
202	Dairy products	-	8	7	0.4	4.1	0.2	0.4	1.6	12.8	32.8	45.5	0.5	0.5	9.4
205	Bakery products	-	9	8	0.8	8.2	0.4	0.7	3.2	19.6	15.0	34.5	1.5	1.5	30.5
208	Beverages	-	9	7	0.6	5.8	0.2	0.5	2.4	19.3	21.8	40.8	1.0	0.5	9.2
209	Miscellaneous foods and kindred products	-	21	11	1.4	13.7	1.1	2.1	9.5	90.5	115.2	206.4	6.2	0.9	57.0
23	Apparel and other textile products	-	27	9	0.8	6.0	0.7	1.3	3.9	13.3	10.9	24.0	0.9	0.5	4.9
232	Men's and boys' furnishings	-	7	4	0.3	2.8	0.3	0.5	1.4	5.3	5.9	11.1	(D)	(NA)	(NA)
24	Lumber and wood products	-	56	23	2.2	20.6	1.8	3.5	15.2	42.6	138.5	180.9	3.2	2.5	42.6
242	Sawmills and planing mills	E1	15	8	0.4	2.9	0.4	0.7	2.4	5.4	11.9	17.3	0.6	0.4	4.7
243	Millwork, plywood, and structural members	-	19	9	1.0	9.8	0.8	1.5	7.0	21.2	109.2	131.1	(D)	1.1	25.7
249	Miscellaneous wood products	-	6	4	0.7	7.1	0.6	1.1	5.1	14.3	16.0	29.5	0.6	0.7	9.4
25	Furniture and fixtures	E4	14	4	0.3	2.2	0.2	0.4	1.2	5.3	5.4	10.6	(D)	0.3	3.5
27	Printing and publishing	E1	93	9	2.0	21.7	0.9	1.6	8.9	47.1	22.8	69.8	1.6	1.9	29.3
275	Commercial printing	E3	63	4	0.5	4.1	0.3	0.5	2.9	8.1	8.5	16.5	0.6	(NA)	(NA)
28	Chemicals and allied products	-	28	13	1.5	20.6	0.8	1.7	10.4	45.9	124.2	171.7	5.4	1.3	29.1
287	Agricultural chemicals	-	9	7	0.6	6.3	0.4	0.8	3.8	20.4	56.7	80.1	2.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	13	4	0.5	5.4	0.4	0.8	3.6	15.3	17.7	33.6	(D)	0.4	4.9
3079	Miscellaneous plastics products	E1	9	3	0.5	5.0	0.4	0.8	3.4	14.6	16.0	31.2	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	38	10	1.3	13.2	0.9	1.7	8.4	34.8	39.0	73.9	3.2	1.3	22.6
327	Concrete, gypsum, and plaster products	-	29	6	0.8	9.3	0.6	1.2	5.9	25.9	32.1	57.4	2.8	0.9	17.3
3273	Ready-mixed concrete	-	13	3	0.3	3.9	0.2	0.3	1.9	9.3	13.7	22.9	1.7	(NA)	(NA)
33	Primary metal industries	E1	9	5	0.5	5.4	0.4	0.8	4.0	8.6	8.9	17.2	0.6	0.6	9.0
34	Fabricated metal products	-	44	13	1.1	12.2	0.8	1.5	7.8	20.1	24.0	43.4	1.0	1.4	15.4
3441	Fabricated structural metal	-	10	6	0.5	5.5	0.4	0.7	3.5	9.4	12.4	21.1	0.2	0.6	5.3
3442	Metal doors, sash, and trim	-	5	3	0.3	2.3	0.2	0.3	1.5	3.9	4.0	7.9	(D)	(NA)	(NA)
35	Machinery, except electrical	-	44	13	1.2	14.9	1.0	1.8	10.0	28.1	76.2	108.5	1.7	0.9	11.0
359	Miscellaneous machinery, except electrical	-	27	6	0.5	6.3	0.4	0.8	4.7	7.4	6.3	17.0	0.4	0.4	6.3
3599	Machinery, except electrical, n.e.c.	-	27	6	0.5	6.3	0.4	0.8	4.7	7.4	6.3	17.0	0.4	0.4	6.3
3731	Ship building and repairing	-	12	9	2.7	39.7	2.4	5.6	31.5	56.8	25.2	82.0	(D)	(NA)	(NA)
--	Administrative and auxiliary	-	16	8	0.7	9.1	-	-	-	-	-	-	-	(NA)	(NA)
	Petersburg-Colonial Heights-Hopewell SMSA	-	**108**	**45**	**11.5**	**155.2**	**9.0**	**16.2**	**114.1**	**660.6**	**577.5**	**1 227.2**	**96.0**	**12.1**	**369.7**
23	Apparel and other textile products	E1	4	4	0.4	2.1	0.4	0.6	1.8	3.6	2.8	6.1	(D)	0.7	3.1
28	Chemicals and allied products	-	10	6	3.7	60.3	2.7	5.5	42.3	214.3	252.9	464.3	26.9	3.4	120.2

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Richmond SMSA	-	775	292	53.4	732.8	34.5	64.8	397.0	1 992.6	2 394.6	4 359.1	126.5	50.2	1 095.5
20	Food and kindred products	-	46	25	4.1	47.5	2.9	5.6	30.2	170.0	243.4	413.6	11.7	3.7	71.0
202	Dairy products	-	5	5	0.4	5.0	0.1	0.3	1.5	14.3	30.1	44.3	(D)	0.5	8.8
205	Bakery products	-	9	5	1.6	21.6	1.3	2.4	17.4	97.9	67.5	166.2	(D)	1.4	27.0
208	Beverages	-	11	6	0.5	6.5	0.2	0.5	2.2	20.9	27.8	48.3	1.1	0.3	6.1
2086	Bottled and canned soft drinks	-	7	6	0.5	6.1	0.2	0.5	2.0	20.1	26.8	46.6	1.0	0.3	5.6
23	Apparel and other textile products	-	27	19	2.7	19.7	2.3	4.1	13.5	30.1	27.0	57.0	0.7	3.7	31.4
239	Miscellaneous fabricated textile products	-	10	8	1.3	10.3	1.0	1.8	6.0	16.1	17.2	33.4	0.5	1.0	11.2
24	Lumber and wood products	E1	129	23	1.5	14.3	1.3	2.3	10.4	25.4	44.5	69.1	(D)	1.7	22.9
242	Sawmills and planing mills	E1	37	12	0.6	5.2	0.5	1.0	3.9	11.2	15.7	26.9	2.5	0.5	7.9
249	Miscellaneous wood products	-	8	4	0.3	4.0	0.3	0.5	3.0	3.9	14.6	17.8	(D)	0.4	3.0
25	Furniture and fixtures	-	36	13	1.7	16.9	1.4	2.6	11.5	32.0	34.6	67.8	(D)	2.0	18.8
251	Household furniture	-	8	4	0.5	5.0	0.5	0.8	3.8	11.8	10.9	23.7	(D)	1.6	13.7
254	Partitions and fixtures	-	14	4	0.8	7.8	0.6	1.1	4.2	9.8	15.2	25.5	(D)	(NA)	(NA)
2541	Wood partitions and fixtures	-	14	4	0.8	7.8	0.6	1.1	4.2	9.8	15.2	25.5	(D)	(NA)	(NA)
26	Paper and allied products	-	40	32	4.1	49.2	3.2	6.2	33.9	96.8	205.9	301.3	8.0	4.2	64.4
2643	Bags, except textile bags	-	7	6	0.8	7.7	0.7	1.2	5.8	16.7	48.6	64.9	1.3	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	12	10	1.1	13.9	0.9	1.6	8.7	26.8	47.8	74.6	(D)	(NA)	(NA)
27	Printing and publishing	-	149	35	4.3	50.3	2.5	4.5	26.4	98.5	58.9	157.3	5.2	4.9	78.3
275	Commercial printing	E1	90	18	1.7	20.7	1.2	2.2	13.1	35.0	33.1	68.0	2.2	1.9	32.3
2752	Commercial printing, lithographic	-	43	13	1.2	15.2	0.8	1.5	8.9	24.0	21.5	45.6	1.6	(NA)	(NA)
278	Blankbooks and bookbinding	-	7	3	0.3	4.2	0.3	0.6	3.2	8.8	2.6	11.4	0.3	0.4	5.5
279	Printing trade services	E2	21	5	0.3	3.1	0.2	0.4	2.3	5.4	1.2	6.7	0.6	(NA)	(NA)
28	Chemicals and allied products	-	32	12	7.9	136.8	4.6	8.9	67.1	388.2	338.5	712.3	31.3	7.5	217.5
30	Rubber and miscellaneous plastics products	-	20	9	1.6	17.8	1.1	2.3	12.6	64.3	47.6	109.4	4.8	2.4	46.2
32	Stone, clay, and glass products	-	32	18	1.0	11.1	0.7	1.4	6.3	24.5	20.0	44.1	2.2	1.0	16.4
3272	Concrete products, n.e.c.	-	12	10	0.5	6.0	0.4	0.8	3.7	10.1	6.6	16.3	1.3	0.5	6.4
34	Fabricated metal products	-	59	24	3.1	43.5	2.4	4.7	30.5	67.7	175.3	235.5	2.8	2.2	42.0
3441	Fabricated structural metal	E1	8	4	0.4	4.3	0.3	0.6	2.9	11.8	8.4	16.8	0.2	0.4	5.8
35	Machinery, except electrical	E2	72	22	2.1	30.7	1.3	2.7	17.4	36.0	28.8	72.4	2.3	1.6	32.8
354	Metalworking machinery	-	4	4	0.3	4.4	0.2	0.4	3.4	2.9	1.6	4.0	(D)	(NA)	(NA
355	Special industry machinery	-	12	7	1.2	17.2	0.6	1.3	8.0	15.9	17.4	41.9	(D)	1.0	24.7
359	Miscellaneous machinery, except electrical	E3	40	6	0.4	5.5	0.3	0.6	3.7	9.6	3.5	12.6	(D)	0.4	5.1
3599	Machinery, except electrical, n.e.c.	E3	40	6	0.4	5.5	0.3	0.6	3.7	9.6	3.5	12.6	(D)	0.4	5.1
39	Miscellaneous manufacturing industries	-	24	6	0.6	6.8	0.5	1.0	4.9	16.1	24.3	39.9	0.6	0.7	11.5
399	Miscellaneous manufactures	-	17	4	0.5	6.1	0.4	0.8	4.5	15.0	22.9	37.5	(D)	0.4	8.5
--	Administrative and auxiliary	-	39	23	4.5	86.3	-	-	-	-	-	-	-	(NA)	(NA
	Roanoke SMSA	-	251	109	20.4	225.2	14.8	28.3	138.0	511.0	476.3	983.0	35.1	20.9	344.7
20	Food and kindred products	-	25	15	1.8	19.8	1.1	2.4	11.5	46.2	108.9	155.1	2.3	1.9	31.6
208	Beverages	E1	5	4	0.4	3.6	0.1	0.2	0.7	12.9	10.7	23.5	0.9	0.4	5.6
2086	Bottled and canned soft drinks	E1	5	4	0.4	3.6	0.1	0.2	0.7	12.9	10.7	23.5	0.9	0.4	5.6
22	Textile mill products	-	4	4	2.1	17.6	1.8	3.6	13.5	33.1	40.9	74.2	(D)	2.1	22.9
2335	Women's and misses' dresses	-	6	5	1.5	8.3	1.2	1.8	5.8	11.9	5.0	18.3	0.1	(NA)	(NA)
27	Printing and publishing	-	28	6	0.9	9.5	0.4	0.8	4.3	17.9	8.9	26.8	0.9	0.8	11.6
28	Chemicals and allied products	-	13	3	1.0	14.5	0.7	1.3	9.0	73.5	28.5	98.9	0.9	1.1	30.8
32	Stone, clay, and glass products	-	24	10	0.8	8.8	0.7	1.4	6.0	16.7	20.0	35.6	1.8	0.8	20.2
327	Concrete, gypsum, and plaster products	E1	17	6	0.4	3.2	0.3	0.5	2.0	6.3	7.8	13.8	(D)	0.3	5.3
332	Iron and steel foundries	E1	6	2	0.3	2.7	0.2	0.4	2.0	3.8	2.5	6.1	(D)	0.3	2.4
3321	Gray iron foundries	E1	6	2	0.3	2.7	0.2	0.4	2.0	3.8	2.5	6.1	(D)	0.3	2.4
34	Fabricated metal products	-	24	13	1.4	16.4	1.0	2.0	9.2	34.3	31.7	65.6	1.7	1.0	17.5
344	Fabricated structural metal products	-	13	7	0.8	9.6	0.5	1.1	4.8	18.6	23.7	42.4	0.6	0.8	14.0
35	Machinery, except electrical	-	26	10	1.5	19.2	1.1	2.1	12.2	43.9	32.8	77.8	(D)	1.3	27.4
353	Construction and related machinery	-	9	4	1.2	15.1	0.9	1.7	9.8	37.1	30.9	69.2	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Washington, D.C.-Md.-Va., SMSA	-	**2 054**	**510**	**60.5**	**930.9**	**29.8**	**56.1**	**354.5**	**1 820.7**	**1 435.2**	**3 233.5**	**(D)**	**54.9**	**1 068.2**
20	Food and kindred products	-	80	39	4.9	76.8	2.3	4.8	32.7	203.4	416.0	618.8	11.4	5.2	141.0
202	Dairy products	-	15	10	0.9	16.3	0.4	1.0	7.9	43.0	191.9	235.3	3.4	0.9	32.8
2026	Fluid milk	-	6	4	0.6	11.1	0.3	0.6	5.1	31.1	110.0	141.3	2.1	0.6	24.9
205	Bakery products	-	26	11	2.1	35.1	0.9	1.9	14.4	74.3	61.0	134.1	4.6	1.5	44.5
2051	Bread, cake, and related products	-	26	11	2.1	35.1	0.9	1.9	14.4	74.3	61.0	134.1	4.6	1.5	44.5
208	Beverages	-	13	8	1.1	16.1	0.4	0.9	4.5	49.6	72.1	121.5	2.2	1.4	32.6
209	Miscellaneous foods and kindred products	-	16	6	0.5	4.8	0.4	0.7	3.3	21.8	50.9	72.4	0.9	0.6	15.8
24	Lumber and wood products	E4	75	10	0.8	8.1	0.6	1.2	5.5	15.1	17.2	32.1	1.1	0.8	11.5
243	Millwork, plywood, and structural members	E3	28	8	0.5	5.9	0.4	0.8	3.8	9.7	12.5	21.9	0.7	0.6	6.6
25	Furniture and fixtures	E3	63	11	0.8	8.2	0.7	1.2	5.5	15.8	17.0	32.8	0.5	0.6	8.1
251	Household furniture	E1	20	3	0.3	2.6	0.2	0.5	1.6	5.6	8.5	14.1	0.2	(NA)	(NA)
259	Miscellaneous furniture and fixtures	E4	13	4	0.3	3.1	0.2	0.4	2.2	5.9	5.1	11.0	0.2	0.3	3.6
26	Paper and allied products	-	15	6	0.7	9.7	0.6	1.0	6.9	20.1	15.0	35.1	0.7	0.6	9.0
264	Miscellaneous converted paper products	-	8	3	0.4	6.2	0.3	0.6	4.8	12.7	11.4	24.2	0.6	(NA)	(NA)
265	Paperboard containers and boxes	E1	7	3	0.3	3.5	0.2	0.4	2.1	7.5	3.6	10.9	0.1	(NA)	(NA)
27	Printing and publishing	-	863	185	22.8	339.8	11.3	19.9	146.0	857.0	481.8	1 337.8	28.2	21.6	423.1
2711	Newspapers	-	75	17	6.5	102.9	2.6	4.0	38.8	219.4	95.7	314.6	7.1	7.0	127.6
2721	Periodicals	-	118	25	4.0	60.0	0.2	0.4	2.7	195.5	128.4	328.7	2.8	4.6	123.2
275	Commercial printing	E1	406	79	6.2	93.2	4.9	9.1	66.4	158.6	122.3	279.1	9.5	5.4	87.8
2751	Commercial printing, letterpress	E4	203	18	1.2	14.0	1.0	1.7	10.0	25.7	17.9	43.5	1.4	1.5	21.5
2752	Commercial printing, lithographic	-	185	60	4.9	77.7	3.8	7.3	55.5	130.6	103.3	232.2	8.0	3.7	63.7
279	Printing trade services	E1	96	22	1.3	19.2	1.0	1.9	14.3	30.9	5.9	36.5	1.5	1.3	22.9
2791	Typesetting	E1	80	18	1.0	12.9	0.8	1.4	9.9	21.0	2.8	23.7	1.3	1.0	16.3
2795	Lithographic platemaking services	-	12	4	0.3	6.2	0.2	0.5	4.3	9.7	3.0	12.6	(D)	(NA)	(NA)
28	Chemicals and allied products	E1	44	11	1.4	18.5	0.9	1.7	8.2	45.1	44.9	88.0	12.8	1.1	25.7
283	Drugs	-	12	6	0.8	8.9	0.5	0.9	3.6	20.1	14.5	34.6	(D)	(NA)	(NA)
2834	Pharmaceutical preparations	-	4	3	0.4	3.9	0.2	0.4	1.4	9.7	8.8	18.5	(D)	(NA)	(NA)
289	Miscellaneous chemical products	-	13	1	0.3	4.9	0.2	0.3	2.4	9.1	13.8	22.5	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	29	6	0.4	4.7	0.3	0.6	2.6	7.8	8.7	16.4	1.3	(NA)	(NA)
32	Stone, clay, and glass products	-	78	33	2.7	33.8	2.1	4.2	24.2	77.3	90.6	167.6	5.2	3.1	62.2
327	Concrete, gypsum, and plaster products	-	54	27	2.4	30.5	1.8	3.8	22.0	70.4	86.4	156.4	4.8	2.6	55.9
3271	Concrete block and brick	-	10	5	0.3	3.3	0.2	0.3	1.6	7.1	11.4	18.5	0.5	(NA)	(NA)
3272	Concrete products, n.e.c.	E1	20	9	0.5	5.1	0.4	0.7	3.2	10.8	6.6	17.2	0.8	0.8	12.3
3273	Ready-mixed concrete	-	24	13	1.7	22.1	1.3	2.7	17.2	52.5	68.4	120.7	3.5	1.6	38.5
34	Fabricated metal products	E1	124	37	2.8	37.9	2.1	3.9	24.0	62.2	67.5	127.7	3.7	2.8	46.6
344	Fabricated structural metal products	-	75	30	2.4	33.2	1.7	3.2	20.7	53.7	61.6	113.3	3.0	2.4	40.5
3441	Fabricated structural metal	E1	17	12	0.9	13.5	0.7	1.4	7.7	23.8	28.9	50.9	1.4	1.0	18.4
3443	Fabricated plate work (boiler shops)	-	5	2	0.3	3.8	0.2	0.4	3.1	5.0	2.6	7.4	(D)	(NA)	(NA)
3444	Sheet metal work	-	16	4	0.5	6.8	0.4	0.7	5.3	10.9	10.0	20.9	0.3	0.4	6.3
3446	Architectural metal work	-	26	7	0.4	5.4	0.3	0.5	3.0	9.2	6.0	15.2	(D)	0.5	6.4
35	Machinery, except electrical	E1	128	26	1.9	25.4	1.2	2.4	13.2	51.3	29.6	80.2	(D)	2.2	29.4
358	Refrigeration and service machinery	-	11	4	0.3	4.1	0.2	0.4	2.1	10.2	7.2	17.3	0.2	0.3	5.5
3585	Refrigeration and heating equipment	-	8	4	0.3	3.8	0.2	0.4	1.9	9.7	7.0	16.5	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	64	8	0.6	7.0	0.5	0.9	5.0	12.0	6.1	17.9	0.8	0.6	7.6
3599	Machinery, except electrical, n.e.c.	E2	64	8	0.6	7.0	0.5	0.9	5.0	12.0	6.1	17.9	0.8	0.6	7.6
36	Electric and electronic equipment	-	148	50	10.7	178.0	4.4	8.6	46.2	345.9	151.5	482.2	16.1	8.3	203.3
366	Communication equipment	-	66	32	9.2	159.9	3.3	6.4	36.0	312.6	128.3	426.0	13.3	4.5	94.5
367	Electronic components and accessories	E3	44	9	0.8	9.0	0.6	1.2	5.5	16.5	9.2	25.3	1.7	3.0	97.2
3679	Electronic components, n.e.c.	E4	36	5	0.4	4.8	0.3	0.5	3.0	8.9	5.4	14.1	1.1	(NA)	(NA)
37	Transportation equipment	-	16	3	0.7	11.4	0.6	1.3	9.2	19.3	14.3	34.7	0.5	1.5	33.3

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Washington, D.C.-Md.-Va., SMSA—Con.														
38	Instruments and related products	-	90	26	2.9	44.6	1.5	2.8	18.4	70.2	36.4	105.0	3.0	1.5	26.4
3811	Engineering and scientific instruments	E4	17	4	0.3	3.9	0.2	0.3	2.1	6.7	3.4	9.7	0.7	0.4	5.8
382	Measuring and controlling devices	-	23	9	1.4	23.6	0.8	1.6	10.6	31.1	13.6	44.5	1.1	(NA)	(NA)
3832	Optical instruments and lenses	-	11	5	0.4	5.2	0.1	0.3	1.6	10.3	5.4	15.2	0.4	0.3	6.4
384	Medical instruments and supplies	-	17	3	0.4	5.6	0.2	0.3	1.5	10.0	6.3	16.0	0.5	(NA)	(NA)
3861	Photographic equipment and supplies	-	13	4	0.4	5.9	0.2	0.3	2.3	11.4	7.3	18.5	0.3	0.4	7.0
39	Miscellaneous manufacturing industries	E3	87	11	0.7	7.9	0.5	0.9	4.6	13.2	8.6	21.8	0.4	0.9	12.0
399	Miscellaneous manufactures	E3	54	9	0.6	6.5	0.4	0.7	3.8	10.7	6.1	16.8	0.3	0.7	10.4
3993	Signs and advertising displays	E2	35	8	0.5	5.8	0.3	0.6	3.4	9.3	5.0	14.3	0.3	0.5	7.5
--	Administrative and auxiliary	-	146	48	5.3	116.0	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Accomack County	-	**63**	**18**	**3.6**	**23.7**	**3.2**	**5.1**	**18.8**	**66.8**	**151.4**	**218.5**	**4.5**	**2.6**	**21.8**
20	Food and kindred products	-	33	14	3.1	20.4	2.7	4.5	16.5	60.4	145.6	206.3	(D)	2.1	17.8
	Albemarle County	-	**30**	**9**	**4.1**	**43.6**	**3.1**	**6.5**	**28.4**	**118.8**	**146.4**	**262.0**	**(D)**	**3.3**	**56.2**
	Amherst County	-	**32**	**7**	**0.7**	**9.3**	**0.4**	**0.8**	**4.4**	**16.6**	**22.1**	**38.5**	**(D)**	**(D)**	**(D)**
	Appomattox County	-	**29**	**8**	**1.2**	**8.4**	**1.0**	**1.9**	**6.9**	**14.5**	**15.8**	**30.4**	**(D)**	**0.9**	**10.7**
	Arlington County	-	**110**	**22**	**1.3**	**19.5**	**0.7**	**1.3**	**7.8**	**25.0**	**13.8**	**38.9**	**1.8**	**1.4**	**19.1**
27	Printing and publishing	E2	70	12	0.8	10.8	0.5	1.0	6.1	20.1	8.7	28.8	1.5	0.8	12.0
	Augusta County	-	**58**	**13**	**2.8**	**30.7**	**2.4**	**4.9**	**21.9**	**58.6**	**54.3**	**109.9**	**1.5**	**3.2**	**37.6**
35	Machinery, except electrical	-	12	1	0.6	8.7	0.4	0.8	4.5	7.2	11.6	19.0	(D)	(NA)	(NA)
	Bedford County	-	**25**	**4**	**0.7**	**7.9**	**0.5**	**1.0**	**5.6**	**23.8**	**26.6**	**50.4**	**(D)**	**0.8**	**14.5**
	Bland County	-	**8**	**3**	**0.5**	**3.2**	**0.4**	**0.9**	**2.6**	**5.7**	**3.0**	**8.1**	**(D)**	**0.3**	**1.8**
	Brunswick County	-	**62**	**13**	**1.5**	**9.7**	**1.3**	**2.3**	**7.8**	**18.5**	**20.6**	**39.0**	**(D)**	**1.4**	**10.8**
24	Lumber and wood products	E3	51	9	0.6	4.6	0.5	1.0	3.7	10.4	13.0	23.2	(D)	0.5	3.2
	Buckingham County	-	**57**	**6**	**0.5**	**3.5**	**0.5**	**0.9**	**2.8**	**8.2**	**7.0**	**15.1**	**0.6**	**0.6**	**4.5**

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Campbell County	-	69	18	5.5	43.1	4.5	8.5	31.0	125.2	99.4	221.2	8.6	4.3	61.8
	Caroline County	-	29	10	0.8	5.6	0.7	1.2	4.5	12.0	23.5	35.4	(D)	0.7	9.1
	Carroll County	-	25	9	1.8	13.6	1.7	3.2	12.1	24.8	27.2	51.1	0.7	1.1	14.7
	Charlotte County	-	56	7	1.9	15.8	1.6	3.2	11.3	25.9	38.5	65.2	4.1	1.0	8.1
22	Textile mill products	-	3	3	0.8	6.4	0.7	1.3	5.3	12.2	22.5	34.7	(D)	0.7	5.5
	Chesterfield County	-	91	35	7.4	109.3	5.2	9.9	69.5	240.4	359.3	593.4	16.4	16.3	374.3
	Clarke County	-	9	4	1.1	9.8	0.9	1.7	6.4	15.1	14.5	29.5	0.6	(D)	(D)
	Culpeper County	-	36	12	1.4	13.4	1.1	2.1	8.6	38.5	55.6	91.8	3.9	1.3	15.8
	Dinwiddie County	-	16	4	0.5	3.2	0.4	0.7	2.8	9.2	11.5	20.7	(D)	0.6	4.3
	Essex County	-	27	6	1.2	9.4	1.0	1.8	7.1	13.5	28.1	40.0	1.7	0.8	13.2
	Fairfax County	-	261	69	7.6	107.8	4.3	8.4	48.7	193.3	158.4	345.9	11.5	6.0	103.9
20	Food and kindred products	-	8	5	0.5	7.3	0.2	0.5	2.3	17.5	38.4	56.0	0.4	0.5	11.5
275	Commercial printing	E2	40	7	0.5	6.7	0.4	0.7	4.7	13.1	7.3	20.3	(D)	(NA)	(NA)
34	Fabricated metal products	E2	25	7	0.5	5.9	0.4	0.7	3.7	11.8	16.7	28.4	0.8	(NA)	(NA)
38	Instruments and related products	-	18	10	1.3	21.9	0.6	1.2	9.8	32.4	18.4	50.1	1.2	0.5	11.4
	Floyd County	-	22	5	0.5	3.5	0.5	0.9	3.2	5.2	3.1	8.3	(D)	0.5	3.1
	Franklin County	-	57	23	4.4	37.1	3.7	6.7	26.0	76.7	124.5	200.3	5.1	3.2	38.3
24	Lumber and wood products	-	32	10	1.8	15.4	1.3	2.3	8.7	31.2	44.0	74.9	(D)	1.7	19.9
	Frederick County	-	13	6	1.5	20.1	1.3	2.9	17.0	52.9	99.4	150.7	3.3	1.4	11.9
	Giles County	-	19	9	2.7	32.4	2.2	4.6	24.8	90.7	93.3	182.1	5.5	2.7	47.4
	Grayson County	-	14	8	2.0	11.7	1.8	3.1	9.9	20.0	23.2	43.0	0.5	2.5	18.3
	Hanover County	-	81	22	1.8	18.9	1.3	2.4	11.0	29.7	45.8	75.0	4.6	1.2	12.3
24	Lumber and wood products	E2	33	9	0.6	6.6	0.6	1.1	5.0	9.7	19.9	28.9	(D)	0.5	5.1
	Henrico County	-	143	55	9.2	128.5	5.3	10.1	55.6	258.1	253.2	515.3	22.6	4.0	57.4
26	Paper and allied products	-	8	7	0.9	9.8	0.7	1.3	6.6	19.2	39.0	58.1	(D)	(NA)	(NA)
27	Printing and publishing	-	29	7	0.9	10.0	0.7	1.2	6.6	18.0	14.3	32.2	(D)	(NA)	(NA)
275	Commercial printing	-	18	5	0.7	8.8	0.5	1.0	5.8	14.9	12.7	27.6	1.5	(NA)	(NA)
35	Machinery, except electrical	-	18	5	0.5	6.7	0.3	0.7	4.4	2.6	6.0	15.9	0.7	(NA)	(NA)
	Henry County	-	55	26	11.2	99.6	9.9	21.0	80.1	269.4	269.1	532.1	14.9	12.4	215.1
	Isle of Wight County	-	20	8	3.9	38.5	3.0	4.6	25.3	82.1	246.9	328.9	7.9	2.9	45.4
	Lancaster County	-	41	13	0.7	4.7	0.6	1.0	3.2	10.9	19.8	30.8	0.7	0.5	2.9
20	Food and kindred products	E1	25	9	0.5	2.7	0.4	0.6	2.0	6.7	16.2	22.9	0.3	(NA)	(NA)
	Lee County	-	15	6	0.6	3.3	0.5	0.9	2.9	4.8	4.5	9.2	0.2	0.3	1.5
	Loudoun County	-	37	11	0.6	7.1	0.4	0.8	4.3	21.8	12.6	34.6	(D)	0.4	8.1
	Louisa County	-	45	10	1.2	7.8	1.1	2.0	6.7	17.0	9.9	26.7	(D)	1.4	9.8
	Lunenburg County	-	36	13	2.0	14.2	1.9	3.3	11.7	29.5	46.2	75.6	1.2	1.7	14.5
	Mecklenburg County	-	57	23	5.3	40.3	4.6	8.5	28.9	95.3	193.0	286.2	4.4	5.1	47.4
232	Men's and boys' furnishings	-	3	3	1.0	5.7	0.9	1.9	5.0	11.4	11.3	22.6	(D)	1.0	6.5
24	Lumber and wood products	-	29	7	0.9	6.5	0.8	1.3	4.4	13.0	19.8	32.2	(D)	0.7	6.5
	Montgomery County	-	38	16	3.2	30.3	2.5	5.1	20.3	66.5	74.2	139.4	2.4	2.3	29.7
	Northampton County	-	20	9	1.1	6.4	1.0	1.7	4.3	12.2	24.2	36.3	(D)	1.0	11.6
20	Food and kindred products	-	11	6	0.7	3.8	0.6	1.2	2.1	7.7	20.4	28.1	(D)	(NA)	(NA)
	Northumberland County	-	36	6	0.8	8.2	0.8	1.3	5.7	24.5	24.2	46.7	1.8	0.7	8.0
20	Food and kindred products	-	21	5	0.7	7.0	0.7	1.1	4.8	21.4	22.0	41.5	(D)	0.5	6.5
	Nottoway County	-	32	12	1.2	8.7	1.1	2.1	7.4	17.4	29.2	46.1	1.7	1.0	9.7
	Orange County	-	28	12	1.9	15.6	1.7	3.2	12.1	44.8	32.7	77.2	3.8	2.1	26.0
	Page County	-	22	10	2.2	17.1	1.9	3.6	13.6	73.2	104.7	172.6	3.3	2.0	39.6
	Patrick County	-	44	6	1.8	15.6	1.6	3.4	12.1	29.7	29.9	59.0	1.2	(D)	(D)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Pittsylvania County	–	55	18	7.0	84.2	5.6	11.5	60.9	219.1	507.4	728.1	29.8	4.6	104.9
24	Lumber and wood products	E1	28	4	0.5	5.7	0.5	1.0	4.2	13.5	16.2	29.7	(D)	(NA)	(NA)
	Prince Edward County	–	27	8	1.3	9.0	1.1	2.0	6.9	19.8	19.0	38.8	3.1	1.6	11.7
	Prince William County	–	38	9	1.0	14.1	0.8	1.6	8.9	27.5	24.6	50.9	0.9	2.9	101.1
	Pulaski County	–	43	24	5.9	51.7	4.9	9.9	38.2	102.5	289.6	389.7	7.4	5.4	63.4
	Richmond County	–	20	8	0.8	4.4	0.5	0.9	3.6	16.6	17.1	33.8	0.6	0.6	8.0
	Roanoke County	–	51	23	3.2	36.2	2.3	4.7	23.3	84.0	85.0	169.7	13.6	1.6	26.0
	Rockingham County	–	69	25	5.2	49.9	4.3	8.3	36.8	153.5	272.8	421.2	25.1	4.8	73.7
20	Food and kindred products	–	18	9	2.4	18.6	2.1	4.2	14.5	31.4	175.9	206.8	(D)	2.0	21.6
201	Meat products	–	7	6	2.2	17.2	1.9	4.0	13.6	27.0	142.3	169.1	(D)	1.7	17.8
23	Apparel and other textile products	–	3	3	1.0	6.4	1.0	1.7	5.8	28.0	4.7	33.4	(D)	1.4	8.3
232	Men's and boys' furnishings	–	3	3	1.0	6.4	1.0	1.7	5.8	28.0	4.7	33.4	(D)	1.1	5.6
	Russell County	–	16	6	1.1	6.2	1.0	1.8	5.4	8.8	3.5	12.2	0.4	1.0	5.8
	Shenandoah County	–	46	23	4.0	33.0	3.4	6.6	24.9	77.8	124.0	201.8	6.6	3.8	49.0
20	Food and kindred products	–	9	5	0.8	5.4	0.7	1.2	4.0	14.3	76.7	90.9	0.9	1.0	17.7
	Smyth County	–	42	17	4.7	36.9	4.0	6.9	25.1	75.2	71.2	148.3	6.6	5.3	39.8
24	Lumber and wood products	–	6	3	0.7	5.9	0.6	1.1	4.4	13.0	14.9	28.1	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members	–	3	3	0.7	5.9	0.6	1.1	4.3	12.9	14.8	27.9	(D)	(NA)	(NA)
2431	Millwork	–	3	3	0.7	5.9	0.6	1.1	4.3	12.9	14.8	27.9	(D)	(NA)	(NA)
25	Furniture and fixtures	–	3	3	1.6	11.0	1.5	2.6	8.1	19.1	15.6	34.9	(D)	(NA)	(NA)
251	Household furniture	–	3	3	1.6	11.0	1.5	2.6	8.1	19.1	15.6	34.9	(D)	(NA)	(NA)
2511	Wood household furniture	–	3	3	1.6	11.0	1.5	2.6	8.1	19.1	15.6	34.9	(D)	(NA)	(NA)
	Spotsylvania County	–	20	7	1.8	22.0	1.4	2.8	15.4	44.8	68.3	111.8	4.5	0.6	9.1
	Sussex County	–	23	6	0.8	8.1	0.6	1.4	6.3	19.2	31.6	51.3	1.4	0.6	8.2
24	Lumber and wood products	–	18	4	0.5	4.9	0.4	0.9	3.7	12.2	20.1	32.3	(D)	0.5	7.8
	Tazewell County	–	57	22	2.4	25.4	1.8	3.3	15.8	44.0	77.3	125.6	4.7	2.6	29.4
35	Machinery, except electrical	–	17	5	1.0	12.2	0.6	1.2	6.7	20.9	44.3	69.4	(D)	(NA)	(NA)
353	Construction and related machinery	–	12	3	0.9	11.3	0.6	1.1	6.0	19.2	43.4	66.8	(D)	(NA)	(NA)
	Washington County	–	41	15	2.6	25.3	2.1	3.8	17.6	60.4	85.4	147.1	8.6	(D)	(D)
	Westmoreland County	–	38	12	0.7	4.5	0.6	0.9	3.3	9.7	17.5	27.0	(D)	0.7	6.9
	Wise County	–	29	8	0.7	6.2	0.6	1.0	3.9	11.5	16.4	27.6	0.5	0.9	5.8
	Wythe County	–	34	15	2.1	15.5	1.8	3.5	11.7	35.2	31.0	64.5	4.4	1.6	16.3
23	Apparel and other textile products	–	6	4	0.7	3.7	0.6	1.1	3.4	5.2	1.7	7.0	(D)	0.5	2.9
	Alexandria (independent city) (See table 8.)														
	Bedford (independent city) (See table 8.)														
	Bristol (independent city) (See table 8.)														
	Buena Vista (independent city) (See table 8.)														
	Charlottesville (independent city) (See table 8.)														
	Chesapeake (independent city) (See table 8.)														
	Danville (independent city) (See table 8.)														
	Emporia (independent city) (See table 8.)														

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Wythe County—Con.													
23	Apparel and other textile products—Con.													
	Franklin (Independent city) (See table 8.)													
	Fredericksburg (Independent city) (See table 8.)													
	Galax (Independent city) (See table 8.)													
	Hampton (Independent city) (See table 8.)													
	Harrisonburg (Independent city) (See table 8.)													
	Hopewell (Independent city) (See table 8.)													
	Lynchburg (Independent city) (See table 8.)													
	Martinsville (Independent city) (See table 8.)													
	Newport News (Independent city) (See table 8.)													
	Norfolk (Independent city) (See table 8.)													
	Portsmouth (Independent city) (See table 8.)													
	Radford (Independent city) (See table 8.)													
	Richmond (Independent city) (See table 8.)													
	Roanoke (Independent city) (See table 8.)													
	Salem (Independent city) (See table 8.)													
	Suffolk (Independent city) (See table 8.)													
	Waynesboro (Independent city) (See table 8.)													
	Winchester (Independent city) (See table 8.)													

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Abingdon	–	**23**	**5**	**0.7**	**5.1**	**0.6**	**1.1**	**3.7**	**10.0**	**15.7**	**25.6**	**0.3**	**(D)**	**(D)**
	Alexandria	–	**97**	**25**	**2.4**	**34.0**	**1.4**	**2.6**	**15.5**	**169.7**	**90.5**	**258.5**	**2.1**	**(NA)**	**(NA)**
27	Printing and publishing	E1	35	8	0.7	12.2	0.3	0.5	3.6	130.3	46.4	175.2	0.5	(NA)	(NA)
	Altavista	–	**15**	**10**	**4.1**	**32.5**	**3.2**	**6.2**	**22.4**	**95.5**	**63.5**	**157.8**	**6.5**	**3.2**	**45.8**
	Arlington (U)	–	**110**	**22**	**1.3**	**19.5**	**0.7**	**1.3**	**7.8**	**25.0**	**13.8**	**38.9**	**1.8**	**1.4**	**19.1**
27	Printing and publishing	E2	70	12	0.8	10.8	0.5	1.0	6.1	20.1	8.7	28.8	1.5	0.8	12.0
	Ashland	–	**34**	**7**	**0.6**	**5.0**	**0.5**	**0.9**	**3.5**	**12.1**	**16.0**	**28.1**	**0.8**	**0.5**	**5.5**
	Bedford	–	**31**	**12**	**2.6**	**23.5**	**2.0**	**3.8**	**16.1**	**54.4**	**47.6**	**101.7**	**(D)**	**(NA)**	**(NA)**
	Blacksburg	–	**13**	**4**	**1.4**	**14.4**	**1.1**	**2.3**	**10.3**	**31.3**	**15.9**	**46.1**	**1.5**	**(D)**	**(D)**
	Blackstone	–	**22**	**9**	**0.9**	**6.2**	**0.8**	**1.5**	**5.2**	**12.6**	**12.0**	**24.2**	**1.6**	**0.8**	**8.4**
	Bluefield	–	**22**	**12**	**0.8**	**9.1**	**0.6**	**1.2**	**5.7**	**18.8**	**28.2**	**47.6**	**1.5**	**1.0**	**15.0**
	Bridgewater	–	**13**	**6**	**1.1**	**8.2**	**1.0**	**1.9**	**7.2**	**23.4**	**35.7**	**60.2**	**0.8**	**1.1**	**11.7**
	Bristol	–	**59**	**32**	**5.4**	**63.7**	**4.0**	**7.9**	**41.6**	**133.2**	**233.9**	**364.6**	**8.6**	**(NA)**	**(NA)**
23	Apparel and other textile products	–	5	5	0.8	5.1	0.7	1.2	4.1	8.4	5.2	13.3	(D)	(NA)	(NA)
	Buena Vista	–	**15**	**10**	**1.5**	**15.3**	**1.2**	**2.4**	**10.5**	**48.1**	**65.3**	**112.6**	**2.3**	**(NA)**	**(NA)**
	Charlottesville	–	**68**	**20**	**3.4**	**37.7**	**2.4**	**4.5**	**20.7**	**70.8**	**79.5**	**146.8**	**5.0**	**(NA)**	**(NA)**
27	Printing and publishing	–	18	2	0.5	5.6	0.3	0.7	3.4	9.9	3.7	13.5	0.3	(NA)	(NA)
36	Electric and electronic equipment	–	11	3	1.3	15.6	0.9	1.8	8.9	30.6	28.9	56.7	(D)	(NA)	(NA)
	Chase City	–	**16**	**7**	**1.3**	**7.2**	**1.2**	**2.3**	**6.2**	**16.6**	**14.5**	**31.5**	**(D)**	**1.4**	**9.1**
	Chesapeake	–	**61**	**28**	**3.1**	**34.4**	**2.4**	**4.4**	**23.8**	**89.1**	**212.5**	**298.3**	**7.8**	**(NA)**	**(NA)**
287	Agricultural chemicals	–	4	4	0.5	4.5	0.3	0.6	2.9	11.4	28.9	42.3	(D)	(NA)	(NA)
	Christiansburg	–	**19**	**10**	**1.5**	**11.1**	**1.1**	**2.2**	**7.2**	**23.1**	**41.0**	**62.4**	**0.6**	**(NA)**	**(NA)**
	Culpeper	–	**29**	**12**	**1.4**	**12.8**	**1.1**	**2.1**	**8.4**	**37.7**	**53.7**	**89.0**	**3.9**	**1.2**	**15.4**
	Danville	–	**69**	**26**	**12.1**	**114.5**	**10.0**	**20.5**	**84.0**	**192.0**	**207.0**	**394.1**	**16.3**	**(NA)**	**(NA)**
--	Administrative and auxiliary	–	7	4	0.6	7.5	–	–	–	–	–	–	–	(NA)	(NA)
	Emporia	–	**39**	**14**	**1.8**	**14.5**	**1.5**	**3.0**	**11.2**	**50.2**	**53.1**	**101.3**	**(D)**	**(NA)**	**(NA)**
24	Lumber and wood products	–	25	5	0.5	5.1	0.5	0.9	4.0	21.0	23.3	44.3	(D)	(NA)	(NA)
	Franklin	–	**15**	**9**	**0.7**	**6.8**	**0.6**	**1.1**	**5.0**	**39.3**	**31.2**	**69.7**	**1.7**	**(NA)**	**(NA)**
	Fredericksburg	–	**38**	**15**	**1.4**	**12.8**	**1.2**	**2.2**	**9.4**	**27.8**	**42.8**	**69.6**	**1.1**	**(NA)**	**(NA)**
	Galax	–	**45**	**16**	**4.8**	**32.7**	**4.5**	**8.1**	**26.8**	**61.3**	**79.1**	**138.8**	**2.4**	**(NA)**	**(NA)**
22	Textile mill products	–	3	3	1.8	14.4	1.7	2.9	11.8	28.0	42.1	69.0	(D)	(NA)	(NA)
25	Furniture and fixtures	–	9	8	2.1	11.7	1.9	3.7	9.5	23.3	24.2	47.3	(D)	(NA)	(NA)
	Hampton	–	**70**	**24**	**2.6**	**26.0**	**2.0**	**3.9**	**16.4**	**50.6**	**55.9**	**106.0**	**2.7**	**(NA)**	**(NA)**
	Harrisonburg	–	**45**	**23**	**3.6**	**33.2**	**2.8**	**5.5**	**22.5**	**89.3**	**136.2**	**226.2**	**6.6**	**(NA)**	**(NA)**
34	Fabricated metal products	–	5	3	0.7	6.1	0.5	0.9	4.2	14.4	11.6	25.3	(D)	(NA)	(NA)
	Hopewell	–	**20**	**8**	**4.8**	**78.1**	**3.4**	**6.8**	**54.0**	**263.5**	**298.5**	**556.4**	**56.8**	**(NA)**	**(NA)**
	Luray	–	**16**	**5**	**1.4**	**11.4**	**1.2**	**2.1**	**8.9**	**52.2**	**80.5**	**128.3**	**(D)**	**1.2**	**32.6**
	Lynchburg	–	**134**	**70**	**19.9**	**256.9**	**12.9**	**25.7**	**144.0**	**554.5**	**395.9**	**952.4**	**25.0**	**(NA)**	**(NA)**
23	Apparel and other textile products	–	9	9	1.2	7.1	1.0	1.8	4.8	12.1	9.1	20.8	(D)	(NA)	(NA)
27	Printing and publishing	–	18	5	0.9	11.3	0.6	1.2	7.6	28.6	16.7	45.1	(D)	(NA)	(NA)
35	Machinery, except electrical	–	15	7	1.2	17.3	0.9	1.8	11.3	26.3	39.9	66.5	1.6	(NA)	(NA)
	Marion	–	**23**	**10**	**2.9**	**23.7**	**2.3**	**4.1**	**15.6**	**52.4**	**44.4**	**97.4**	**5.0**	**3.2**	**24.3**
	Martinsville	–	**66**	**30**	**14.4**	**143.0**	**12.1**	**22.5**	**99.7**	**261.7**	**248.7**	**507.2**	**15.7**	**(NA)**	**(NA)**
22	Textile mill products	–	2	2	4.4	32.2	3.9	7.0	23.2	65.1	52.7	116.5	2.9	(NA)	(NA)
225	Knitting mills	–	2	2	4.4	32.2	3.9	7.0	23.2	65.1	52.7	116.5	2.9	(NA)	(NA)
2253	Knit outerwear mills	–	2	2	4.4	32.2	3.9	7.0	23.2	65.1	52.7	116.5	2.9	(NA)	(NA)
24	Lumber and wood products	–	14	8	1.4	12.6	1.1	2.0	7.3	22.5	52.2	75.0	1.9	(NA)	(NA)
245	Wood buildings and mobile homes	–	4	4	1.1	9.6	0.8	1.4	5.4	18.0	44.9	63.2	1.5	(NA)	(NA)
2452	Prefabricated wood buildings	–	4	4	1.1	9.6	0.8	1.4	5.4	18.0	44.9	63.2	1.5	(NA)	(NA)
25	Furniture and fixtures	–	8	4	3.3	24.7	3.0	5.8	20.4	47.1	35.3	81.9	(D)	(NA)	(NA)
251	Household furniture	–	8	4	3.3	24.7	3.0	5.8	20.4	47.1	35.3	81.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capitel expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Newport News	-	**78**	**32**	**28.9**	**382.1**	**24.8**	**48.7**	**325.2**	**555.8**	**446.8**	**1 004.7**	**(D)**	**(NA)**	**(NA)**
	Norfolk	-	**245**	**90**	**13.5**	**183.8**	**9.4**	**19.9**	**119.7**	**539.6**	**983.8**	**1 519.5**	**23.5**	**(NA)**	**(NA)**
2051	Bread, cake, and related products	-	5	5	0.6	6.6	0.2	0.6	2.4	16.6	10.5	27.2	1.4	(NA)	(NA)
209	Miscellaneous foods and kindred products	-	9	3	0.6	4.6	0.4	0.8	2.7	9.0	22.7	31.7	(D)	(NA)	(NA)
34	Fabricated metal products	-	24	8	0.6	7.3	0.4	0.8	4.4	11.8	15.0	26.0	0.4	(NA)	(NA)
344	Fabricated structural metal products	-	15	8	0.5	6.8	0.4	0.7	4.1	11.0	14.2	24.5	0.3	(NA)	(NA)
373	Ship and boat building and repairing	-	14	9	2.9	41.1	2.6	5.9	32.4	60.0	29.0	89.0	(D)	(NA)	(NA)
	Orange	-	**15**	**8**	**1.3**	**9.4**	**1.1**	**2.0**	**7.1**	**29.1**	**17.1**	**45.9**	**(D)**	**0.8**	**7.4**
	Petersburg	-	**51**	**24**	**5.6**	**68.6**	**4.7**	**7.9**	**54.2**	**368.6**	**254.7**	**621.2**	**36.1**	**(NA)**	**(NA)**
	Portsmouth	-	**65**	**23**	**2.3**	**27.8**	**1.6**	**3.0**	**14.6**	**61.6**	**110.3**	**172.3**	**5.8**	**(NA)**	**(NA)**
	Pulaski	-	**27**	**15**	**3.3**	**27.3**	**2.9**	**5.5**	**21.0**	**53.5**	**63.7**	**118.7**	**(D)**	**(D)**	**(D)**
22	Textile mill products	-	4	4	1.3	9.5	1.2	2.4	8.2	12.8	19.5	32.3	(D)	(NA)	(NA)
	Radford	-	**21**	**11**	**5.8**	**71.0**	**4.5**	**8.5**	**48.2**	**150.5**	**80.4**	**230.3**	**(D)**	**(NA)**	**(NA)**
	Richmond	-	**403**	**173**	**34.8**	**473.0**	**22.4**	**41.8**	**258.4**	**1 459.0**	**1 730.0**	**3 163.6**	**82.5**	**(NA)**	**(NA)**
20	Food and kindred products	-	32	19	2.4	29.2	1.3	2.8	14.2	79.4	119.5	198.8	(D)	(NA)	(NA)
2086	Bottled and canned soft drinks	-	7	6	0.5	6.1	0.2	0.5	2.0	20.1	26.8	46.6	1.0	(NA)	(NA)
23	Apparel and other textile products	-	22	16	2.5	18.2	2.1	3.7	12.3	27.2	24.3	51.4	(D)	(NA)	(NA)
25	Furniture and fixtures	-	23	8	1.0	9.7	0.8	1.5	5.6	15.3	21.0	36.8	(D)	(NA)	(NA)
26	Paper and allied products	-	26	22	2.9	35.5	2.3	4.5	24.6	71.3	154.2	224.2	(D)	(NA)	(NA)
265	Paperboard containers and boxes	-	16	12	1.6	20.1	1.3	2.5	14.0	43.6	95.6	138.5	3.7	(NA)	(NA)
27	Printing and publishing	-	100	24	3.2	37.4	1.7	3.0	18.0	74.0	38.1	112.0	(D)	(NA)	(NA)
275	Commercial printing	E1	63	12	0.9	10.9	0.7	1.1	6.8	17.7	18.0	35.7	0.6	(NA)	(NA)
32	Stone, clay, and glass products	-	15	7	0.5	6.1	0.3	0.7	3.0	16.0	12.1	27.7	(D)	(NA)	(NA)
34	Fabricated metal products	-	32	12	1.7	25.0	1.3	2.6	17.5	28.5	119.6	143.2	(D)	(NA)	(NA)
35	Machinery, except electrical	E2	37	12	1.1	15.7	0.6	1.3	7.5	24.1	16.1	41.8	1.2	(NA)	(NA)
--	Administrative and auxiliary	-	17	10	1.1	20.0	-	-	-	-	-	-	-	(NA)	(NA)
	Roanoke	-	**127**	**57**	**9.7**	**96.5**	**7.1**	**13.3**	**60.6**	**219.5**	**189.8**	**406.4**	**11.1**	**(NA)**	**(NA)**
20	Food and kindred products	-	16	10	1.1	11.5	0.6	1.1	5.3	29.7	36.5	66.4	1.6	(NA)	(NA)
23	Apparel and other textile products	-	12	9	1.8	10.5	1.5	2.3	7.0	13.6	7.1	22.3	0.7	(NA)	(NA)
233	Women's and misses' outerwear	-	6	5	1.5	8.4	1.2	1.9	5.6	9.5	3.8	15.0	(D)	(NA)	(NA)
27	Printing and publishing	-	19	5	0.8	8.6	0.4	0.7	3.7	16.3	7.4	23.8	0.8	(NA)	(NA)
34	Fabricated metal products	-	9	3	0.5	6.2	0.4	0.7	3.1	11.1	11.7	22.8	(D)	(NA)	(NA)
	Rocky Mount	-	**32**	**16**	**3.6**	**30.3**	**3.1**	**5.7**	**21.8**	**62.2**	**93.1**	**154.2**	**4.7**	**2.3**	**26.5**
	Salem	-	**51**	**22**	**7.0**	**88.6**	**4.9**	**9.4**	**51.3**	**197.9**	**195.5**	**391.8**	**10.0**	**(NA)**	**(NA)**
34	Fabricated metal products	-	6	5	0.5	6.4	0.4	0.8	4.1	15.1	14.3	29.2	0.7	(NA)	(NA)
35	Machinery, except electrical	-	8	3	0.7	9.2	0.5	1.0	6.0	18.1	17.5	35.7	0.9	(NA)	(NA)
	South Hill	-	**15**	**8**	**0.9**	**7.4**	**0.7**	**1.3**	**4.8**	**14.8**	**24.5**	**39.2**	**0.7**	**0.7**	**6.3**
	Suffolk	-	**75**	**34**	**6.6**	**69.1**	**5.2**	**9.9**	**46.7**	**369.7**	**465.7**	**855.5**	**10.6**	**(NA)**	**(NA)**
24	Lumber and wood products	E1	24	12	0.7	4.9	0.6	1.2	4.0	8.9	17.3	26.0	0.9	(NA)	(NA)
	Vienna	-	**17**	**3**	**0.6**	**7.1**	**0.5**	**1.0**	**5.4**	**12.0**	**5.8**	**17.1**	**0.5**	**(NA)**	**(NA)**
	Vinton	-	**9**	**3**	**0.7**	**6.6**	**0.6**	**1.3**	**5.5**	**15.0**	**27.4**	**42.3**	**(D)**	**(D)**	**(D)**
	Waynesboro	-	**35**	**19**	**7.6**	**104.8**	**5.2**	**10.1**	**59.2**	**238.0**	**160.0**	**393.2**	**32.3**	**(NA)**	**(NA)**
	Winchester	-	**59**	**26**	**6.3**	**67.5**	**4.9**	**9.5**	**45.9**	**155.0**	**167.8**	**321.5**	**11.8**	**(NA)**	**(NA)**
20	Food and kindred products	-	13	8	1.1	12.1	0.7	1.3	5.9	33.4	45.1	78.7	2.7	(NA)	(NA)
	Wytheville	-	**19**	**11**	**1.6**	**12.1**	**1.3**	**2.6**	**8.8**	**29.6**	**27.4**	**55.5**	**3.8**	**1.4**	**14.6**

Note: "City" level includes data on number of establishments, total employment, end total payroll for central administrative offices end auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not aveileble. (Z) Less then 50 thousend dollers or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
VIRGINIA	5519	543	19	100	287	1424	175	97	800	155	22	86	27	335	64	297	414	175	131	80	130	158
1 TO 4 EMPLOYEES	2509	156	-	13	48	874	56	13	409	52	10	13	7	95	15	96	158	59	53	35	69	33
5 TO 9 EMPLOYEES	775	54	2	4	13	160	21	9	132	16	5	10	2	55	6	40	61	28	15	12	15	20
10 TO 19 EMPLOYEES	781	70	1	1	12	164	13	13	96	27	3	15	-	76	9	43	72	22	14	7	17	24
20 TO 49 EMPLOYEES	801	107	2	10	37	128	16	11	97	24	2	22	3	58	6	49	61	13	19	10	13	34
50 TO 99 EMPLOYEES	442	78	2	9	52	49	18	18	35	8	1	4	3	24	7	31	27	10	6	7	8	17
100 TO 249 EMPLOYEES	416	51	6	19	78	36	19	21	20	7	1	7	6	22	10	21	19	17	11	6	4	23
250 TO 499 EMPLOYEES	192	16	2	19	39	11	13	8	5	5	-	9	5	3	3	12	10	13	5	2	4	23
500 TO 999 EMPLOYEES	99	6	2	15	8	2	16	1	4	3	-	3	1	2	6	5	5	9	5	2	-	2
1000 TO 2499 EMPLOYEES	49	5	-	8	-	-	3	3	2	11	-	3	-	-	2	-	1	4	2	-	-	2
2500 EMPLOYEES AND OVER	10	-	2	2	-	-	-	-	-	2	-	-	-	-	-	-	-	2	1	-	-	-
ACCOMACK COUNTY	63	33	-	-	3	15	-	-	2	1	-	-	-	6	-	1	-	-	2	-	-	-
1 TO 19 EMPLOYEES	42	19	-	-	2	14	-	-	1	-	-	-	-	4	-	-	-	-	2	-	-	-
20 TO 99 EMPLOYEES	11	8	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	8	4	-	-	1	-	-	-	1	1	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALBEMARLE COUNTY	30	2	-	1	-	16	1	-	1	1	-	-	-	1	-	-	2	4	-	1	-	-
1 TO 19 EMPLOYEES	21	1	-	-	-	15	-	-	1	1	-	-	-	1	-	-	1	1	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	5	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
ALLEGHANY COUNTY	3	-	-	-	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
AMELIA COUNTY	21	1	-	-	1	16	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	15	1	-	-	-	12	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMHERST COUNTY	32	-	-	-	2	19	-	1	1	-	-	-	-	2	1	-	2	-	-	1	1	2
1 TO 19 EMPLOYEES	25	-	-	-	-	18	-	-	1	-	-	-	-	1	1	-	1	-	-	1	1	1
20 TO 99 EMPLOYEES	5	-	-	-	2	1	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
APPOMATTOX COUNTY	29	-	-	-	5	20	1	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	21	-	-	-	-	18	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARLINGTON COUNTY	110	1	1	-	2	1	2	1	70	2	1	-	-	1	1	6	2	1	1	1	2	14
1 TO 19 EMPLOYEES	88	1	1	-	2	1	2	-	58	2	1	-	-	1	1	3	2	1	1	1	2	8
20 TO 99 EMPLOYEES	22	-	-	-	-	-	-	1	12	-	-	-	-	-	-	3	-	-	-	-	-	6
AUGUSTA COUNTY	58	6	-	3	2	13	-	1	4	1	-	3	-	4	1	3	12	2	1	1	-	1
1 TO 19 EMPLOYEES	45	5	-	1	-	12	-	-	4	1	-	-	-	4	1	2	11	1	1	1	-	1
20 TO 99 EMPLOYEES	6	-	-	-	1	1	-	1	-	-	-	2	-	-	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	4	1	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
BATH COUNTY	8	-	-	-	1	6	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BEDFORD COUNTY	25	4	-	-	2	15	1	1	-	-	-	-	-	-	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	21	3	-	-	-	15	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BLAND COUNTY	8	-	-	-	2	5	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electricsl; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explsnation of terms, see sppendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
BOTETOURT COUNTY	18	1	-	-	2	3	-	-	1	1	-	2	-	2	-	2	3	-	-	-	1	-
1 TO 19 EMPLOYEES	13	1	-	-	-	3	-	-	1	1	-	1	-	2	-	1	2	-	-	-	1	-
20 TO 99 EMPLOYEES	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
BRUNSWICK COUNTY	62	-	-	-	2	51	1	-	1	-	-	-	1	2	-	-	3	-	1	-	-	-
1 TO 19 EMPLOYEES	49	-	-	-	-	42	1	-	1	-	-	-	-	1	-	-	3	-	1	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	-	7	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUCHANAN COUNTY	25	-	-	-	-	7	-	-	1	-	-	-	-	4	1	-	10	-	1	-	1	-
1 TO 19 EMPLOYEES	19	-	-	-	-	6	-	-	1	-	-	-	-	4	-	-	7	-	-	-	1	-
20 TO 99 EMPLOYEES	5	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	3	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
BUCKINGHAM COUNTY	57	1	-	-	3	49	-	-	-	-	-	-	1	3	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	51	1	-	-	2	47	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	1	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
CAMPBELL COUNTY	69	3	-	2	7	35	3	1	4	1	-	-	-	5	-	2	3	1	1	-	-	1
1 TO 19 EMPLOYEES	51	2	-	-	1	32	2	1	3	-	-	-	-	5	-	2	3	-	-	-	-	-
20 TO 99 EMPLOYEES	8	1	-	1	3	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1
CAROLINE COUNTY	29	1	-	-	-	20	-	-	2	-	-	-	-	2	1	2	1	-	-	-	-	-
1 TO 19 EMPLOYEES	19	1	-	-	-	14	-	-	1	-	-	-	-	2	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	9	-	-	-	-	6	-	-	1	-	-	-	-	-	1	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
CARROLL COUNTY	25	-	-	3	3	12	-	-	3	-	1	-	-	1	-	-	1	1	-	-	-	-
1 TO 19 EMPLOYEES	16	-	-	-	-	11	-	-	3	-	1	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	2	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
CHARLES CITY COUNTY	5	-	-	-	-	4	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	4	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
CHARLOTTE COUNTY	56	-	-	3	1	48	-	-	2	-	-	-	-	1	-	-	-	-	-	1	-	-
1 TO 19 EMPLOYEES	49	-	-	-	1	45	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
CHESTERFIELD COUNTY	91	2	1	-	-	17	4	3	14	4	2	3	1	4	4	5	10	1	2	1	4	9
1 TO 19 EMPLOYEES	56	-	-	-	-	16	1	1	12	3	2	-	1	1	1	2	6	1	2	-	3	4
20 TO 99 EMPLOYEES	19	2	-	-	-	1	1	1	2	-	-	2	-	3	1	1	2	-	-	1	-	2
100 TO 249 EMPLOYEES	9	-	1	-	-	-	1	1	-	-	-	-	-	-	1	1	2	-	-	-	-	2
250 EMPLOYEES AND OVER	7	-	-	-	-	-	1	-	-	1	-	1	-	-	1	1	-	-	-	-	1	1
CLARKE COUNTY	9	1	-	-	-	4	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1
1 TO 19 EMPLOYEES	5	1	-	-	-	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CRAIG COUNTY	4	-	-	-	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CULPEPER COUNTY	36	5	-	-	2	11	2	-	5	1	-	-	-	2	2	1	2	-	2	-	-	1
1 TO 19 EMPLOYEES	24	3	-	-	-	10	1	-	4	1	-	-	-	2	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	8	2	-	-	1	1	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	1
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
CUMBERLAND COUNTY	12	-	-	-	-	10	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	12	-	-	-	-	10	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufacturea; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
DICKENSON COUNTY	7	-	-	-	1	2	-	-	1	-	-	-	-	2	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	2	-	-	1	-	-	-	-	2	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DINWIDDIE COUNTY	16	-	-	-	1	12	1	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	12	-	-	-	-	11	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	2	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ESSEX COUNTY	27	1	-	1	-	15	-	-	4	-	-	1	-	1	-	1	1	1	1	-	-	-
1 TO 19 EMPLOYEES	21	1	-	-	-	11	-	-	4	-	-	1	-	1	-	1	1	1	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
FAIRFAX COUNTY	261	8	-	-	3	5	8	1	86	2	1	2	-	12	3	25	15	45	3	18	16	4
1 TO 19 EMPLOYEES	192	3	-	-	3	4	6	1	72	2	1	1	-	7	3	18	12	33	3	8	14	1
20 TO 99 EMPLOYEES	50	3	-	-	-	1	2	-	11	-	-	1	-	3	-	7	2	8	-	7	2	3
100 TO 249 EMPLOYEES	13	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	1	5	-	2	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	3	-	1	-	-
FAUQUIER COUNTY	32	3	-	-	-	7	-	1	5	2	1	-	-	4	1	4	2	-	-	2	-	-
1 TO 19 EMPLOYEES	25	3	-	-	-	7	-	-	4	2	1	-	-	3	-	2	1	-	-	2	-	-
20 TO 99 EMPLOYEES	6	-	-	-	-	-	-	1	1	-	-	-	-	1	-	2	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
FLOYO COUNTY	22	2	-	-	4	14	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	17	2	-	-	-	13	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLUVANNA COUNTY	24	-	-	1	-	19	-	-	-	-	-	-	-	-	-	2	1	1	-	-	-	-
1 TO 19 EMPLOYEES	23	-	-	-	-	19	-	-	-	-	-	-	-	-	-	2	1	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANKLIN COUNTY	57	1	-	3	5	32	2	-	3	2	-	-	-	5	-	3	-	-	-	-	1	-
1 TO 19 EMPLOYEES	34	1	-	-	-	22	1	-	2	1	-	-	-	4	-	3	-	-	-	-	-	-
20 TO 99 EMPLOYEES	14	-	-	1	3	6	-	-	1	1	-	-	-	1	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	5	-	-	1	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	1	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FREDERICK COUNTY	13	1	-	-	-	2	-	-	1	-	-	1	-	3	-	1	3	1	-	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	2	-	-	1	-	-	-	-	2	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
GILES COUNTY	19	-	-	-	3	3	-	-	1	1	-	-	-	3	-	2	6	-	-	-	-	-
1 TO 19 EMPLOYEES	10	-	-	-	-	3	-	-	1	-	-	-	-	1	-	2	3	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
GLOUCESTER COUNTY	32	9	-	-	4	9	-	-	1	-	-	2	-	1	-	-	1	-	5	-	-	-
1 TO 19 EMPLOYEES	26	7	-	-	3	8	-	-	1	-	-	2	-	-	-	-	1	-	4	-	-	-
20 TO 99 EMPLOYEES	6	2	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-
GOOCHLAND COUNTY	16	-	-	-	1	13	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	15	-	-	-	-	13	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAYSON COUNTY	14	1	-	3	3	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	2	-
1 TO 19 EMPLOYEES	6	-	-	-	-	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	3	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	4	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREENE COUNTY	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
GREENSVILLE COUNTY	4	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
HALIFAX COUNTY	25	-	-	1	1	19	1	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	18	-	-	-	-	17	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	1	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-
HANOVER COUNTY	81	3	-	-	3	33	2	3	5	3	-	3	-	6	1	6	7	2	1	1	1	1
1 TO 19 EMPLOYEES	59	3	-	-	2	24	2	2	3	2	-	3	-	3	1	3	6	2	1	1	1	-
20 TO 99 EMPLOYEES	19	-	-	-	-	8	-	1	2	1	-	-	-	3	-	3	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
HENRICO COUNTY	143	8	-	-	1	17	5	8	29	5	1	4	-	7	-	15	18	5	-	3	5	12
1 TO 19 EMPLOYEES	88	4	-	-	-	12	3	1	22	5	1	2	-	2	-	9	13	3	-	2	4	5
20 TO 99 EMPLOYEES	42	2	-	-	1	5	2	5	6	-	-	2	-	4	-	6	4	-	-	-	1	4
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	2
250 EMPLOYEES AND OVER	8	2	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	2	-	-	-	1
HENRY COUNTY	55	1	-	3	1	18	15	2	3	-	1	-	-	1	-	-	5	1	1	1	-	2
1 TO 19 EMPLOYEES	29	1	-	-	-	17	3	-	2	-	1	-	-	-	-	-	4	1	-	-	-	-
20 TO 99 EMPLOYEES	7	-	-	-	-	-	3	1	-	-	-	-	-	1	-	-	1	-	-	-	-	1
100 TO 249 EMPLOYEES	4	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	15	-	-	3	1	-	8	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1
HIGHLAND COUNTY	5	-	-	-	1	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ISLE OF WIGHT COUNTY	20	6	-	-	-	6	-	-	2	-	-	-	-	-	-	-	3	-	1	-	-	2
1 TO 19 EMPLOYEES	12	2	-	-	-	4	-	-	2	-	-	-	-	-	-	-	2	-	1	-	-	1
20 TO 99 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
250 EMPLOYEES AND OVER	3	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JAMES CITY COUNTY	9	1	-	1	-	3	-	-	-	-	-	-	-	2	-	1	-	-	-	-	1	-
1 TO 19 EMPLOYEES	5	1	-	-	-	1	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KING AND QUEEN COUNTY	24	-	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	24	-	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KING GEORGE COUNTY	11	2	-	-	-	7	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	9	-	-	-	-	7	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KING WILLIAM COUNTY	25	-	-	-	-	19	-	1	1	-	-	-	-	1	-	1	1	-	1	-	-	-
1 TO 19 EMPLOYEES	21	-	-	-	-	17	-	-	1	-	-	-	-	1	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LANCASTER COUNTY	41	25	-	1	2	4	-	-	2	-	-	-	-	1	-	1	-	-	3	1	-	1
1 TO 19 EMPLOYEES	28	16	-	1	-	4	-	-	2	-	-	-	-	1	-	1	-	-	2	-	-	1
20 TO 99 EMPLOYEES	13	9	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-
LEE COUNTY	15	1	-	-	5	4	1	-	1	-	-	-	-	-	-	-	1	1	1	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	-	4	-	-	1	-	-	-	-	-	-	-	1	1	1	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOUDOUN COUNTY	37	4	-	-	1	6	-	-	5	1	-	2	-	5	-	3	2	4	2	-	1	1
1 TO 19 EMPLOYEES	26	3	-	-	1	5	-	-	3	1	-	-	-	4	-	2	1	4	1	-	1	-
20 TO 99 EMPLOYEES	10	1	-	-	-	1	-	-	2	-	-	2	-	1	-	1	1	-	-	-	-	1
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
LOUISA COUNTY	45	-	-	1	3	35	1	-	2	-	-	-	-	1	-	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES	35	-	-	1	-	29	1	-	1	-	-	-	-	1	-	-	1	-	-	-	1	-
20 TO 99 EMPLOYEES	7	-	-	-	-	6	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groupa descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile productа; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal productа; 30--rubber and miscellaneous plastics products; 31--leather and leather productа; 32--stone, clay, and glass productа; 33--primary metal industries; 34--fabricated metal productа; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size clasa[1]	All establishmenta	Establishmenta in major industry groupa																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
LUNENBURG COUNTY	36	-	2	-	2	22	1	-	-	2	-	2	1	-	-	-	1	-	1	-	2	-
1 TO 19 EMPLOYEES	23	-	-	-	-	19	-	-	-	1	-	1	-	-	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	5	-	1	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	5	-	1	-	1	1	-	-	-	-	-	1	1	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MADISON COUNTY	15	2	-	-	2	9	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	12	2	-	-	1	8	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MATHEWS COUNTY	10	3	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	1
1 TO 19 EMPLOYEES	8	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	1
20 TO 99 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MECKLENBURG COUNTY	57	2	-	3	8	29	1	1	5	-	-	-	1	2	-	2	1	-	-	-	-	2
1 TO 19 EMPLOYEES	34	-	-	-	2	22	-	1	4	-	-	-	-	2	-	1	1	-	-	-	-	1
20 TO 99 EMPLOYEES	8	1	-	-	1	3	1	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	8	-	-	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
250 EMPLOYEES AND OVER	7	1	-	2	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
MIDDLESEX COUNTY	26	5	-	-	1	11	-	-	1	-	-	-	-	-	-	-	-	-	8	-	-	-
1 TO 19 EMPLOYEES	19	1	-	-	1	10	-	-	1	-	-	-	-	-	-	-	-	-	6	-	-	-
20 TO 99 EMPLOYEES	7	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
MONTGOMERY COUNTY	38	2	-	-	5	2	4	-	6	1	1	-	-	5	-	2	5	3	1	-	-	1
1 TO 19 EMPLOYEES	22	1	-	-	-	2	2	-	6	1	1	-	-	3	-	2	4	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
100 TO 249 EMPLOYEES	6	1	-	-	1	-	2	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	2	1	-	-	-
NELSON COUNTY	32	-	-	1	1	24	-	-	1	-	-	-	-	1	1	-	2	-	-	-	1	-
1 TO 19 EMPLOYEES	29	-	-	1	-	23	-	-	1	-	-	-	-	-	1	-	2	-	-	-	1	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW KENT COUNTY	24	1	-	-	-	22	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	22	1	-	-	-	20	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTHAMPTON COUNTY	20	11	-	-	1	3	-	-	1	1	-	1	-	1	-	-	-	-	-	-	-	1
1 TO 19 EMPLOYEES	11	5	-	-	-	3	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	1
20 TO 99 EMPLOYEES	5	4	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTHUMBERLAND COUNTY	36	21	-	1	-	4	-	-	1	-	-	-	-	1	-	-	3	-	4	-	-	1
1 TO 19 EMPLOYEES	30	16	-	1	-	3	-	-	1	-	-	-	-	1	-	-	3	-	4	-	-	1
20 TO 99 EMPLOYEES	4	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NOTTOWAY COUNTY	32	2	-	2	4	15	-	-	2	-	-	-	1	1	-	2	1	-	-	-	-	2
1 TO 19 EMPLOYEES	20	2	-	-	2	10	-	-	2	-	-	-	-	-	-	1	1	-	-	-	-	2
20 TO 99 EMPLOYEES	7	-	-	1	-	4	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	1	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ORANGE COUNTY	28	1	-	3	1	11	-	-	3	-	-	-	-	3	-	3	2	1	-	-	-	-
1 TO 19 EMPLOYEES	16	1	-	-	-	9	-	-	-	-	-	-	-	2	-	2	1	1	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	1	-	1	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	1	1	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAGE COUNTY	22	4	-	1	3	3	1	-	3	-	-	-	1	2	-	1	-	1	1	-	1	-
1 TO 19 EMPLOYEES	12	3	-	-	-	2	1	-	1	-	-	-	-	2	-	1	-	-	1	-	1	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	1	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-
PATRICK COUNTY	44	-	-	2	1	35	-	-	3	-	-	1	-	-	-	-	1	-	-	-	-	1
1 TO 19 EMPLOYEES	38	-	-	-	-	34	-	-	3	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	3	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related producta; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
PITTSYLVANIA COUNTY	55	3	3	2	4	28	-	2	2	2	1	1	1	3	1	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES	37	3	-	1	1	24	-	1	1	1	1	-	-	2	-	-	1	-	-	-	1	-
20 TO 99 EMPLOYEES	4	-	-	-	1	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	-	2	1	-	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	3	1	-	1	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
POWHATAN COUNTY	12	-	-	-	-	11	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	8	-	-	-	-	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PRINCE EDWARD COUNTY	27	-	-	-	1	17	-	-	1	1	-	-	1	1	-	1	1	1	-	-	1	1
1 TO 19 EMPLOYEES	19	-	-	-	-	14	-	-	-	1	-	-	-	1	-	1	1	-	-	-	-	1
20 TO 99 EMPLOYEES	4	-	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-
PRINCE GEORGE COUNTY	11	1	-	-	-	7	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	4	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
PRINCE WILLIAM COUNTY	38	-	-	1	-	3	-	-	13	-	-	2	-	4	-	5	7	-	1	-	2	-
1 TO 19 EMPLOYEES	29	-	-	1	-	3	-	-	11	-	-	2	-	2	-	2	6	-	-	-	2	-
20 TO 99 EMPLOYEES	7	-	-	-	-	-	-	-	2	-	-	-	-	2	-	2	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
PULASKI COUNTY	43	3	-	5	2	8	3	1	3	1	-	-	-	5	-	2	5	-	1	-	1	3
1 TO 19 EMPLOYEES	19	2	-	-	-	6	-	1	2	-	-	-	-	4	-	-	3	-	-	-	1	-
20 TO 99 EMPLOYEES	12	1	-	2	-	2	-	-	1	-	-	-	-	1	-	2	-	-	-	-	-	3
100 TO 249 EMPLOYEES	3	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	9	-	-	3	1	-	3	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
RAPPAHANNOCK COUNTY	4	-	-	-	1	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RICHMOND COUNTY	20	3	-	-	1	13	-	-	1	-	-	-	-	1	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	14	1	-	-	-	10	-	-	1	-	-	-	-	1	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	2	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROANOKE COUNTY	51	4	-	1	1	6	2	1	2	2	-	2	-	7	-	7	6	5	2	1	2	-
1 TO 19 EMPLOYEES	28	1	-	-	1	5	2	-	1	2	-	-	-	3	-	3	3	3	1	1	2	-
20 TO 99 EMPLOYEES	17	3	-	-	-	1	-	-	1	-	-	2	-	4	-	3	2	1	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
250 EMPLOYEES AND OVER	4	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-
ROCKBRIDGE COUNTY	19	-	-	3	1	13	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
1 TO 19 EMPLOYEES	15	-	-	-	-	13	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
20 TO 99 EMPLOYEES	3	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROCKINGHAM COUNTY	69	18	-	1	3	12	3	1	9	3	-	1	1	6	-	2	3	2	1	-	1	2
1 TO 19 EMPLOYEES	44	9	-	1	-	10	1	-	8	2	-	-	1	6	-	2	1	1	-	-	1	1
20 TO 99 EMPLOYEES	13	4	-	-	-	2	1	-	1	-	-	-	-	-	-	-	2	1	1	-	-	1
100 TO 249 EMPLOYEES	4	1	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	8	4	-	-	2	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-
RUSSELL COUNTY	16	-	-	-	4	6	-	-	1	-	-	-	-	2	-	-	3	-	-	-	-	-
1 TO 19 EMPLOYEES	10	-	-	-	-	5	-	-	1	-	-	-	-	1	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCOTT COUNTY	19	1	-	-	3	6	-	1	2	1	-	-	-	1	-	2	-	-	2	-	-	-
1 TO 19 EMPLOYEES	11	-	-	-	-	6	-	1	2	-	-	-	-	1	-	-	-	-	1	-	-	-
20 TO 99 EMPLOYEES	7	1	-	-	3	-	-	-	-	1	-	-	-	-	-	1	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
SHENANDOAH COUNTY	46	9	-	1	8	9	-	-	6	1	-	-	-	7	1	-	2	-	2	-	-	-
1 TO 19 EMPLOYEES	23	4	-	-	1	7	-	-	4	1	-	-	-	5	-	-	-	-	1	-	-	-
20 TO 99 EMPLOYEES	9	2	-	-	3	1	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	12	2	-	-	4	1	-	-	1	-	-	-	-	2	1	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
SMYTH COUNTY	42	7	-	2	5	6	3	-	4	-	1	1	-	4	1	2	4	-	-	-	2	-
1 TO 19 EMPLOYEES	25	6	-	1	1	3	-	-	4	-	1	1	-	3	1	1	2	-	-	-	1	-
20 TO 99 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	1	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	9	-	-	-	2	2	3	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
SOUTHAMPTON COUNTY	23	9	-	1	-	9	-	1	-	1	-	-	-	-	-	1	-	-	-	-	-	1
1 TO 19 EMPLOYEES	16	6	-	-	-	8	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPOTSYLVANIA COUNTY	20	1	-	-	-	14	-	-	-	-	-	1	-	2	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	13	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	1	-	-	-	1	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-
STAFFORD COUNTY	14	-	-	-	1	9	-	-	-	-	-	-	-	3	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	11	-	-	-	1	7	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
SURRY COUNTY	3	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUSSEX COUNTY	23	-	-	-	-	18	-	1	-	2	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	17	-	-	-	-	14	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TAZEWELL COUNTY	57	4	-	-	1	3	2	-	5	1	-	-	-	8	2	2	17	6	3	1	1	1
1 TO 19 EMPLOYEES	35	2	-	-	-	1	-	-	4	1	-	-	-	5	2	-	12	4	2	1	-	1
20 TO 99 EMPLOYEES	16	2	-	-	-	2	1	-	1	-	-	-	-	3	-	1	3	1	1	-	1	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
WARREN COUNTY	18	4	-	-	2	4	1	-	1	2	-	1	-	1	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	11	3	-	-	-	4	-	-	1	-	-	1	-	-	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	3	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
WASHINGTON COUNTY	41	2	-	2	2	11	1	-	6	1	-	-	-	3	1	5	6	1	-	-	-	-
1 TO 19 EMPLOYEES	26	2	-	1	-	10	1	-	5	-	-	-	-	2	-	2	3	-	-	-	-	-
20 TO 99 EMPLOYEES	7	-	-	1	1	-	-	-	-	1	-	-	-	-	-	2	1	1	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	1	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-
WESTMORELAND COUNTY	38	28	-	-	-	6	-	-	-	-	-	-	-	1	-	1	-	-	2	-	-	-
1 TO 19 EMPLOYEES	26	19	-	-	-	4	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-
20 TO 99 EMPLOYEES	11	9	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
WISE COUNTY	29	3	-	-	4	6	-	-	7	-	-	-	-	2	-	-	5	-	-	1	-	1
1 TO 19 EMPLOYEES	21	2	-	-	-	5	-	-	7	-	-	-	-	2	-	-	4	-	-	1	-	-
20 TO 99 EMPLOYEES	5	1	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
WYTHE COUNTY	34	1	-	1	6	5	-	1	2	-	-	2	-	5	-	1	8	2	-	-	-	-
1 TO 19 EMPLOYEES	19	1	-	-	2	5	-	1	1	-	-	-	-	5	-	-	3	1	-	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	5	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	1	1	-	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
YORK COUNTY	15	4	-	-	-	3	-	-	-	-	1	-	-	2	-	1	1	-	1	-	-	2
1 TO 19 EMPLOYEES	10	2	-	-	-	3	-	-	-	-	-	-	-	2	-	-	1	-	1	-	-	1
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
INDEPENDENT CITIES																						
ALEXANDRIA	97	5	-	-	1	-	5	1	35	2	-	3	1	1	1	11	7	7	2	6	5	4
1 TO 19 EMPLOYEES	72	1	-	-	1	-	4	1	27	2	-	2	-	1	-	10	5	6	1	4	4	3
20 TO 99 EMPLOYEES	20	3	-	-	-	-	1	-	7	-	-	1	1	-	1	1	2	1	-	1	-	1
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
BEDFORD	31	3	-	2	1	9	1	1	5	-	-	2	-	2	-	1	1	-	-	-	-	3
1 TO 19 EMPLOYEES	19	1	-	1	-	8	-	1	3	-	-	-	-	1	-	1	1	-	-	-	-	2
20 TO 99 EMPLOYEES	7	2	-	-	1	-	-	-	1	-	-	1	-	1	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	3	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
BRISTOL	59	12	-	2	5	7	-	1	9	3	1	1	-	4	1	3	5	2	2	-	1	-
1 TO 19 EMPLOYEES	27	5	-	-	-	3	-	1	5	3	1	-	-	2	1	-	3	-	2	-	1	-
20 TO 99 EMPLOYEES	15	2	-	1	2	3	-	-	3	-	-	-	-	2	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	9	3	-	1	1	1	-	-	1	-	-	1	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	8	2	-	-	2	-	-	-	-	-	-	-	-	-	-	3	-	1	-	-	-	-
BUENA VISTA	15	-	-	1	1	2	-	2	1	-	-	2	-	1	2	1	-	-	1	-	-	1
1 TO 19 EMPLOYEES	5	-	-	-	-	1	-	-	1	-	-	1	-	1	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	6	-	-	1	1	-	-	1	-	-	-	-	-	-	1	1	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
CHARLOTTESVILLE	68	3	-	1	2	7	-	1	18	3	1	-	-	5	-	3	3	11	-	4	4	2
1 TO 19 EMPLOYEES	48	1	-	-	1	4	-	1	16	3	-	-	-	2	-	1	3	8	-	4	3	1
20 TO 99 EMPLOYEES	12	-	-	-	1	3	-	-	1	-	1	-	-	3	-	2	-	-	-	-	-	1
100 TO 249 EMPLOYEES	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-
250 EMPLOYEES AND OVER	4	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-
CHESAPEAKE	61	3	-	-	3	7	2	3	4	7	1	1	-	8	1	6	6	-	8	-	-	1
1 TO 19 EMPLOYEES	33	1	-	-	2	5	2	2	4	1	-	1	-	4	-	3	4	-	3	-	-	1
20 TO 99 EMPLOYEES	19	2	-	-	1	1	-	1	-	4	1	-	-	2	-	2	1	-	4	-	-	-
100 TO 249 EMPLOYEES	6	-	-	-	-	-	-	-	-	1	-	-	-	1	1	1	1	-	1	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-
CLIFTON FORGE	8	1	-	-	-	1	-	-	2	-	-	-	-	1	-	-	-	-	-	2	-	1
1 TO 19 EMPLOYEES	7	1	-	-	-	1	-	-	2	-	-	-	-	1	-	-	-	-	-	1	-	1
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
COLONIAL HEIGHTS	10	1	-	-	-	2	-	-	2	1	-	-	1	-	-	2	-	-	-	1	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	2	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	-	2	1	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
COVINGTON	20	-	-	-	1	7	-	1	3	3	-	-	-	2	-	-	2	-	-	-	-	1
1 TO 19 EMPLOYEES	14	-	-	-	-	7	-	-	2	1	-	-	-	2	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-
DANVILLE	69	6	-	3	3	17	2	-	9	2	-	-	-	3	-	3	8	1	1	-	4	7
1 TO 19 EMPLOYEES	43	2	-	1	1	12	1	-	6	2	-	-	-	2	-	3	5	-	1	-	4	3
20 TO 99 EMPLOYEES	15	3	-	-	-	5	1	-	2	-	-	-	-	1	-	-	2	-	-	-	-	1
100 TO 249 EMPLOYEES	7	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	3
250 EMPLOYEES AND OVER	4	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
EMPORIA	39	3	-	4	2	25	-	-	1	-	-	-	-	1	1	-	1	-	-	-	-	1
1 TO 19 EMPLOYEES	25	1	-	-	-	20	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	1
20 TO 99 EMPLOYEES	8	1	-	1	1	4	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	1	-	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FAIRFAX	28	-	-	-	1	-	1	1	16	-	-	-	-	1	-	1	2	1	-	2	1	1
1 TO 19 EMPLOYEES	23	-	-	-	1	-	1	1	12	-	-	-	-	1	-	1	2	1	-	1	1	1
20 TO 99 EMPLOYEES	5	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	1	-	-
FALLS	26	-	-	-	2	-	2	-	12	-	-	-	-	-	-	2	2	1	-	3	2	-
1 TO 19 EMPLOYEES	22	-	-	-	1	-	2	-	11	-	-	-	-	-	-	1	2	-	-	3	2	-
20 TO 99 EMPLOYEES	4	-	-	-	1	-	-	-	1	-	-	-	-	-	-	1	-	1	-	-	-	-

See footnotee at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groupa deacriptions are: 20--food and kindred producta; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied producta; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glasa products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miacellaneous manufacturing industriea. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
INDEPENDENT CITIES--CON.																						
FRANKLIN	15	1	-	-	1	6	-	1	1	3	-	1	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	5	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	7	1	-	-	1	1	-	-	1	1	-	1	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-
FREDERICKSBURG	38	1	-	-	4	7	1	-	8	-	1	-	-	6	1	1	2	1	1	2	1	1
1 TO 19 EMPLOYEES	23	1	-	-	1	5	-	-	4	-	-	-	-	5	-	1	2	1	1	2	-	-
20 TO 99 EMPLOYEES	11	-	-	-	-	2	1	-	3	-	1	-	-	1	1	-	-	-	-	-	1	1
100 TO 249 EMPLOYEES	4	-	-	-	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
GALAX	45	1	-	3	1	19	9	-	2	-	-	-	-	3	-	-	4	-	1	-	-	2
1 TO 19 EMPLOYEES	29	1	-	-	-	18	1	-	1	-	-	-	-	1	-	-	4	-	1	-	-	2
20 TO 99 EMPLOYEES	5	-	-	-	-	-	3	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	1	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	3	1	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMPTON	70	11	-	1	5	4	-	-	8	2	1	-	-	3	1	4	13	6	3	3	2	3
1 TO 19 EMPLOYEES	46	5	-	-	5	3	-	-	6	1	1	-	-	1	-	3	9	4	3	2	1	2
20 TO 99 EMPLOYEES	19	6	-	1	-	1	-	-	1	1	-	-	-	2	-	1	4	-	-	-	1	1
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	1	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-
HARRISONBURG	45	9	-	-	3	3	2	-	6	3	-	1	-	4	1	5	6	-	1	1	-	-
1 TO 19 EMPLOYEES	22	3	-	-	1	3	1	-	2	3	-	-	-	2	-	2	4	-	-	1	-	-
20 TO 99 EMPLOYEES	13	5	-	-	-	-	1	-	4	-	-	-	-	2	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	2	-	-	-	-	-	-	1	-	-	-	2	1	-	1	-	-	-
HOPEWELL	20	-	1	-	-	3	-	2	3	7	-	-	-	1	-	-	2	-	-	-	-	1
1 TO 19 EMPLOYEES	12	-	-	-	-	3	-	1	2	3	-	-	-	1	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	1	-	3	-	-	-	-	-	-	-	-	-	-	-	1
LEXINGTON	9	-	-	-	-	2	1	-	1	-	-	-	-	1	-	-	1	-	-	-	2	1
1 TO 19 EMPLOYEES	7	-	-	-	-	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	2	1
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
LYNCHBURG	135	17	1	1	9	14	2	4	18	7	-	2	5	7	4	9	16	7	2	-	2	8
1 TO 19 EMPLOYEES	65	7	1	1	-	11	1	1	13	4	-	1	1	4	-	4	9	3	1	-	-	3
20 TO 99 EMPLOYEES	35	7	-	-	5	2	-	2	3	-	-	1	2	2	-	3	4	1	1	-	1	1
100 TO 249 EMPLOYEES	15	2	-	-	3	1	1	-	1	-	-	-	1	1	-	1	-	1	-	-	1	2
250 EMPLOYEES AND OVER	20	1	-	-	1	-	-	1	1	3	-	-	1	-	4	1	3	2	-	-	-	2
MANASSAS	17	1	-	-	-	2	-	-	7	-	-	-	-	1	-	1	-	4	-	1	-	-
1 TO 19 EMPLOYEES	11	-	-	-	-	2	-	-	6	-	-	-	-	-	-	1	-	2	-	-	-	-
20 TO 99 EMPLOYEES	5	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	-	1	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
MANASSAS PARK	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
MARTINSVILLE	66	3	-	2	3	14	8	6	7	2	-	-	-	5	-	6	4	-	1	1	1	3
1 TO 19 EMPLOYEES	36	2	-	-	1	6	4	4	6	-	-	-	-	3	-	3	2	-	1	1	1	2
20 TO 99 EMPLOYEES	14	1	-	-	-	3	-	1	1	1	-	-	-	1	-	3	2	-	-	-	-	1
100 TO 249 EMPLOYEES	5	-	-	-	-	2	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	11	-	-	2	2	3	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
NEWPORT NEWS	78	10	-	1	3	6	3	1	12	1	1	3	-	8	3	6	5	4	5	2	3	1
1 TO 19 EMPLOYEES	46	-	-	-	1	3	3	-	10	1	1	2	-	5	3	4	3	4	2	1	2	1
20 TO 99 EMPLOYEES	20	7	-	-	1	3	-	-	1	-	-	1	-	3	-	1	1	-	1	1	-	-
100 TO 249 EMPLOYEES	7	3	-	1	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	2	-	1	-
NORFOLK	248	37	1	3	8	11	7	1	58	10	1	6	-	14	7	24	19	3	16	2	10	7
1 TO 19 EMPLOYEES	155	13	-	1	5	6	3	-	51	8	1	3	-	10	4	16	13	2	6	2	8	3
20 TO 99 EMPLOYEES	68	19	1	1	3	4	4	1	6	2	-	2	-	2	2	7	5	1	4	-	2	2
100 TO 249 EMPLOYEES	14	3	-	1	-	-	-	-	-	-	-	-	-	2	1	1	1	-	3	-	-	2
250 EMPLOYEES AND OVER	8	2	-	-	-	1	-	-	1	-	-	1	-	-	-	-	-	-	3	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
INDEPENDENT CITIES--CON.																						
NORTON	6	2	-	-	1	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	2	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
PETERSBURG	51	7	2	-	3	11	1	-	5	1	-	1	2	6	-	3	2	1	3	-	2	1
1 TO 19 EMPLOYEES	27	3	-	-	-	9	1	-	4	-	-	1	1	4	-	-	1	-	2	-	1	-
20 TO 99 EMPLOYEES	19	4	1	-	1	2	-	-	1	1	-	-	-	2	-	3	-	1	1	-	1	1
100 TO 249 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-
POQUOSON	5	1	-	-	-	-	1	1	-	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	-	1	1	-	-	-	-	-	1	-	-	1	-	-	-	-	-
PORTSMOUTH	65	13	-	-	6	4	1	-	9	6	-	2	-	4	1	4	6	1	6	-	-	2
1 TO 19 EMPLOYEES	42	3	-	-	3	2	1	-	9	3	-	2	-	4	-	4	4	1	5	-	-	1
20 TO 99 EMPLOYEES	19	9	-	-	1	2	-	-	-	2	-	-	-	-	1	-	2	-	1	-	-	1
100 TO 249 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
RAOFORO	21	1	-	2	3	-	-	2	3	1	-	2	-	2	1	-	2	2	-	-	-	-
1 TO 19 EMPLOYEES	10	-	-	-	1	-	-	1	3	-	-	-	-	2	-	-	2	1	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	1	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	2	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-
RICHMOND	403	32	7	3	22	12	23	26	100	20	-	10	6	15	6	32	37	8	6	7	14	17
1 TO 19 EMPLOYEES	230	13	1	1	6	10	15	4	76	10	-	6	3	8	2	20	25	6	3	4	10	7
20 TO 99 EMPLOYEES	114	12	1	2	8	2	6	9	19	7	-	2	3	5	2	9	10	2	2	3	4	6
100 TO 249 EMPLOYEES	36	4	3	-	5	-	1	10	3	-	-	-	-	2	1	1	1	-	1	-	-	4
250 EMPLOYEES AND OVER	23	3	2	-	3	-	1	3	2	3	-	2	-	-	1	2	1	-	-	-	-	-
ROANOKE	127	16	-	2	12	5	5	5	19	5	2	2	-	8	6	9	9	3	2	6	7	4
1 TO 19 EMPLOYEES	70	6	-	-	3	3	2	2	14	2	2	1	-	3	3	6	6	1	1	6	7	2
20 TO 99 EMPLOYEES	33	4	-	-	5	2	1	2	3	2	-	1	-	4	1	1	3	2	1	-	-	1
100 TO 249 EMPLOYEES	15	6	-	-	2	-	1	1	1	-	-	-	-	1	1	1	-	-	-	-	-	1
250 EMPLOYEES AND OVER	9	-	-	2	2	-	1	-	1	1	-	-	-	-	1	1	-	-	-	-	-	-
SALEM	51	4	-	1	2	3	4	-	6	4	-	1	-	7	2	6	8	2	-	1	-	-
1 TO 19 EMPLOYEES	29	2	-	-	-	1	1	-	6	4	-	-	-	6	2	1	5	-	-	1	-	-
20 TO 99 EMPLOYEES	8	-	-	-	1	2	1	-	-	-	-	-	-	1	-	2	1	-	-	-	-	-
100 TO 249 EMPLOYEES	7	1	-	1	-	-	1	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-
250 EMPLOYEES AND OVER	7	1	-	-	1	-	1	-	-	-	-	1	-	-	-	-	1	2	-	-	-	-
SOUTH BOSTON	19	3	-	1	1	5	1	-	3	-	-	-	-	2	-	1	-	1	1	-	-	-
1 TO 19 EMPLOYEES	15	3	-	-	-	5	1	-	2	-	-	-	-	2	-	1	-	-	1	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STAUNTON	18	2	-	-	1	2	-	-	4	-	-	-	-	2	-	1	3	1	-	-	1	1
1 TO 19 EMPLOYEES	16	2	-	-	1	2	-	-	3	-	-	-	-	2	-	-	3	1	-	-	1	1
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
SUFFOLK	75	18	-	-	1	24	-	1	5	3	-	1	-	6	-	3	7	1	-	-	1	4
1 TO 19 EMPLOYEES	41	7	-	-	-	12	-	1	3	1	-	1	-	5	-	3	5	-	-	-	1	2
20 TO 99 EMPLOYEES	26	7	-	-	1	11	-	-	1	2	-	-	-	1	-	-	2	-	-	-	-	1
100 TO 249 EMPLOYEES	5	2	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
250 EMPLOYEES AND OVER	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
VIRGINIA BEACH	85	5	-	2	8	7	4	1	17	1	1	2	-	6	-	7	6	2	4	-	10	2
1 TO 19 EMPLOYEES	71	2	-	1	7	6	4	1	17	1	1	1	-	5	-	5	5	2	3	-	9	1
20 TO 99 EMPLOYEES	10	3	-	-	1	1	-	-	-	-	-	1	-	-	-	1	-	-	1	-	1	1
100 TO 249 EMPLOYEES	4	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-
WAYNESBORO	35	-	-	3	-	2	3	-	4	2	-	1	-	1	-	3	10	2	-	1	1	2
1 TO 19 EMPLOYEES	16	-	-	1	-	2	-	-	2	1	-	-	-	-	-	2	5	1	-	1	-	1
20 TO 99 EMPLOYEES	10	-	-	-	-	-	1	-	2	-	-	1	-	1	-	-	4	-	-	-	1	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
250 EMPLOYEES AND OVER	6	-	-	2	-	-	1	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--atone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
INDEPENDENT CITIES--CON.																						
WILLIAMSBURG	9	-	-	-	-	-	1	-	4	1	-	-	1	1	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	7	-	-	-	-	-	1	-	3	-	-	-	1	1	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
WINCHESTER	59	13	-	2	2	6	6	1	4	2	-	3	-	4	-	4	3	2	2	-	2	3
1 TO 19 EMPLOYEES	33	5	-	1	1	5	4	1	3	1	-	1	-	2	-	3	-	1	1	-	2	2
20 TO 99 EMPLOYEES	12	5	-	1	-	-	1	-	1	-	-	-	-	1	-	-	2	-	-	-	-	1
100 TO 249 EMPLOYEES	8	2	-	-	-	1	1	-	-	1	-	-	-	-	-	1	1	-	1	-	-	-
250 EMPLOYEES AND OVER	6	1	-	-	1	-	-	-	-	-	-	2	-	1	-	-	-	1	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

Washington

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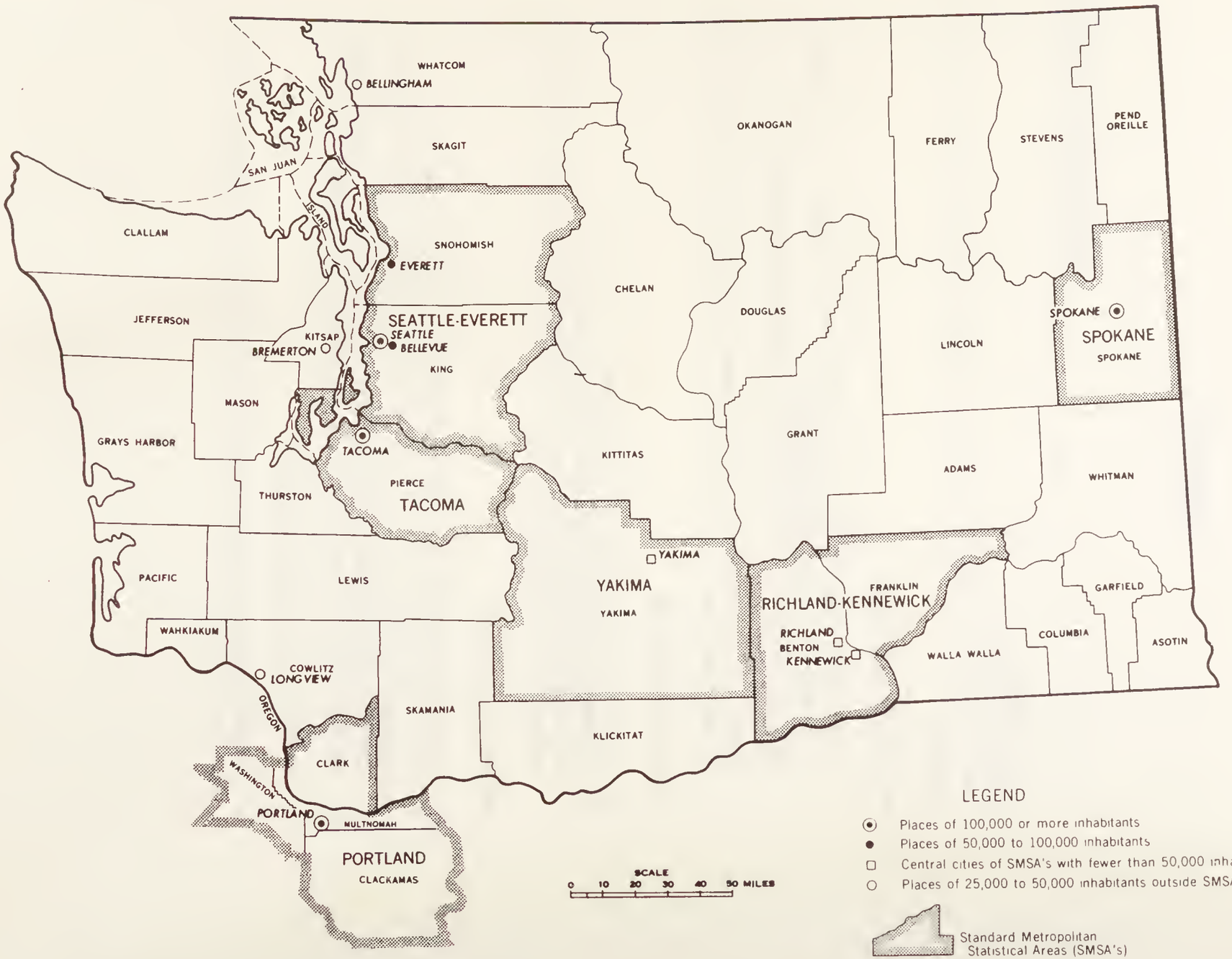
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WASHINGTON



U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 265.0 thousand persons were employed in Washington's manufacturing establishments. This figure represented an increase of 17 percent from the 1972 figure of 226.0 thousand workers.

The total value added by manufacture for the State amounted to $8,955 million in 1977, an increase of approximately 90 percent from the 1972 figure of $4,721 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were transportation equipment, lumber and wood products, food and kindred products, and paper and allied products. They accounted for approximately 61 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 63 percent of the State's employment.

The most important counties in the State ranked by employment were King, Pierce, Snohomish, and Spokane. They accounted for approximately 64 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 64 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 4 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Washington:						
1977	265.0	4,054.3	256.2	3,870.9	8.8	183.4
1972	226.0	2,308.4	219.3	2,223.7	6.7	84.7
1967	270.7	2,119.0	266.6	2,075.8	4.1	43.2
1963	224.4	1,479.1	221.3	1,454.0	3.1	25.1
STANDARD CONSOLIDATED STATISTICAL AREA						
Seattle-Tacoma:						
1977	153.2	2,431.4	146.0	2,278.8	7.2	152.6
1972	129.1	1,400.4	123.7	1,331.1	5.4	69.3
STANDARD METROPOLITAN STATISTICAL AREAS						
Portland, Oreg.-Wash.:						
1977	99.4	1,392.1	94.7	1,302.7	4.7	89.4
1972	86.4	808.9	82.4	757.8	4.0	51.1
1967	79.8	561.0	77.4	540.2	2.4	20.8
1963	65.3	392.8	63.3	377.0	1.9	15.8
Richland-Kennewick:						
1977	8.5	129.3	8.4	128.3	.1	1.0
1972	5.9	56.5	5.9	56.5	-	-
Seattle-Everett:						
1977	131.9	2,111.6	127.3	2,014.8	4.6	96.8
1972	108.6	1,195.6	105.0	1,154.9	3.6	40.7
1967	162.2	1,366.7	160.6	1,348.4	1.6	18.3
1963	121.6	855.2	120.2	842.7	1.4	12.6
Spokane:						
1977	16.0	226.6	15.8	223.3	.2	3.3
1972	12.2	115.6	12.1	114.4	.1	1.2
1967	12.3	89.2	12.0	86.4	.3	2.8
1963	11.8	76.4	(D)	(D)	(D)	(D)
Tacoma:						
1977	21.3	319.8	18.7	264.0	2.6	55.8
1972	20.4	204.8	18.6	176.2	1.8	28.6
1967	19.8	143.1	18.4	128.0	1.4	15.1
1963	16.6	98.9	(D)	(D)	(D)	(D)
Yakima:						
1977	8.0	101.5	7.9	99.8	.1	1.7
1972	6.6	56.5	6.5	55.7	.1	.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
	WASHINGTON														
1977 CENSUS.	6 723	1 712	265.0	4 054.3	180.7	338.2	2 385.0	8 955.0	12 921.4	21 746.9	850.0	1.35	100	100	19 596.9
1976 ASM....	(NA)	(NA)	244.1	3 594.4	163.3	307.3	2 086.8	7 296.9	11 351.8	18 842.8	662.2	1.30	92	96	18 753.0
1975 ASM....	(NA)	(NA)	239.2	3 168.1	160.6	295.6	1 794.3	7 032.9	10 050.2	16 932.5	808.0	1.31	90	94	18 302.2
1974 ASM....	(NA)	(NA)	254.4	2 962.0	171.6	320.1	1 713.4	6 870.9	9 397.4	16 068.2	560.0	1.28	96	102	19 844.8
1973 ASM....	(NA)	(NA)	244.8	2 625.9	171.9	320.0	1 584.2	5 733.7	7 537.4	13 524.2	446.3	1.23	92	102	19 897.9
1972 CENSUS.	5 345	1 463	226.0	2 308.4	159.8	303.3	1 410.9	4 721.4	5 930.1	10 815.7	353.7	1.19	85	98	19 028.7
1971 ASM....	(NA)	(NA)	220.7	2 061.8	148.2	276.5	1 205.6	4 117.0	5 560.8	10 731.1	364.5	1.20	83	94	18 363.1
1970 ASM....	(NA)	(NA)	237.5	2 205.6	157.6	298.0	1 272.6	4 094.7	5 839.2	10 276.4	311.0	1.24	90	99	19 217.2
1969 ASM....	(NA)	(NA)	272.8	2 445.2	177.7	339.7	1 330.8	5 132.8	5 504.5	10 618.2	306.1	1.36	103	103	20 035.5
1968 ASM....	(NA)	(NA)	282.7	2 333.7	182.6	351.0	1 282.1	4 808.3	5 296.3	10 100.7	374.6	1.45	107	100	19 527.6
1967 CENSUS.	5 014	1 375	270.7	2 119.0	177.7	344.6	1 179.8	3 764.2	4 777.5	8 503.0	464.7	1.40	102	99	19 323.2
1966 ASM....	(NA)	(NA)	251.6	1 931.8	171.4	332.4	1 109.6	3 289.2	4 309.3	7 696.1	418.2	1.32	95	98	19 024.5
1965 ASM....	(NA)	(NA)	223.3	1 611.2	156.9	307.0	975.2	3 048.8	3 774.7	6 964.8	243.3	1.24	84	92	18 010.2
1964 ASM....	(NA)	(NA)	231.0	1 584.9	156.5	309.0	945.0	3 175.7	3 348.1	6 773.9	177.4	1.34	87	89	17 268.5
1963 CENSUS.	5 250	1 233	224.4	1 479.1	152.2	297.3	881.4	2 884.9	(NA)	(NA)	143.4	1.32	85	87	16 958.4
	SEATTLE-TACOMA SCSA														
1977 CENSUS.	3 332	905	153.2	2 431.4	93.0	170.4	1 208.6	4 919.3	5 887.4	10 716.6	267.6	.78	100	100	19 596.9
1972 CENSUS.	2 675	775	129.1	1 400.4	81.3	153.8	725.3	2 598.1	2 907.3	5 666.3	119.6	.68	84	98	19 028.7
	PORTLAND, OREG.-WASH., SMSA														
1977 CENSUS.	2 440	724	99.4	1 392.1	67.9	126.4	815.4	2 951.6	3 623.4	6 544.8	236.4	.51	100	100	19 596.9
1976 ASM....	(NA)	(NA)	93.2	1 211.4	64.4	118.0	740.1	2 548.5	3 198.8	5 724.6	173.3	.50	94	96	18 753.0
1975 ASM....	(NA)	(NA)	90.5	1 074.4	60.6	111.0	645.4	2 186.6	2 863.3	5 015.5	149.3	.49	91	94	18 302.2
1974 ASM....	(NA)	(NA)	96.0	1 035.7	68.3	126.6	645.2	2 129.2	2 780.0	4 803.3	167.0	.48	97	102	19 844.8
1973 ASM....	(NA)	(NA)	94.9	957.7	67.3	127.3	594.2	1 862.5	2 301.7	4 144.0	95.8	.48	95	102	19 897.9
1972 CENSUS.	2 009	671	86.4	808.9	62.4	117.9	512.4	1 596.9	1 896.3	3 467.1	92.9	.45	87	98	19 028.7
1971 ASM....	(NA)	(NA)	86.5	727.6	61.2	115.3	458.4	1 365.2	1 619.3	2 972.7	81.1	.47	87	94	18 363.1
1970 ASM....	(NA)	(NA)	86.8	672.3	61.2	115.8	424.4	1 318.3	1 503.2	2 791.0	95.2	.45	87	99	19 217.2
1969 ASM....	(NA)	(NA)	85.5	646.9	62.4	118.6	419.4	1 300.4	1 521.8	2 810.6	95.6	.43	86	103	20 035.5
1968 ASM....	(NA)	(NA)	82.0	596.7	60.0	115.7	392.1	1 204.1	1 420.9	2 596.9	74.5	.42	82	100	19 527.6
1967 CENSUS.	1 826	563	79.8	561.0	58.4	113.9	368.4	1 115.4	1 304.2	2 420.5	77.0	.41	80	99	19 323.2
1966 ASM....	(NA)	(NA)	76.9	525.6	56.0	110.4	348.1	1 036.9	1 277.5	2 298.9	80.0	.40	77	98	19 024.5
1965 ASM....	(NA)	(NA)	70.2	463.6	51.4	100.4	306.5	912.3	1 185.4	2 083.7	55.7	.39	71	92	18 010.2
1964 ASM....	(NA)	(NA)	67.4	425.4	49.3	96.5	279.8	829.9	1 067.9	1 890.7	46.5	.39	68	89	17 268.5
1963 CENSUS.	1 863	519	65.3	392.8	47.5	92.4	258.6	768.2	(NA)	(NA)	48.9	.39	66	87	16 958.4
	SEATTLE-EVERETT SMSA														
1977 CENSUS.	2 717	733	131.9	2 111.6	78.6	143.0	1 017.8	4 161.0	4 940.0	9 015.4	213.4	.67	100	100	19 596.9
1976 ASM....	(NA)	(NA)	119.9	1 890.7	67.8	127.9	866.0	3 353.1	4 201.1	7 764.7	163.2	.64	91	96	18 753.0
1975 ASM....	(NA)	(NA)	123.4	1 769.5	70.2	130.1	801.7	3 596.0	3 709.9	7 285.2	241.0	.67	94	94	18 302.2
1974 ASM....	(NA)	(NA)	128.2	1 590.1	74.9	139.2	746.4	3 561.6	3 624.0	7 204.7	124.5	.65	97	102	19 844.8
1973 ASM....	(NA)	(NA)	121.4	1 390.3	74.2	134.5	685.2	2 729.5	3 187.0	6 221.2	127.8	.61	92	102	19 897.9
1972 CENSUS.	2 156	608	108.6	1 195.6	66.6	126.4	597.4	2 234.7	2 307.0	4 705.5	82.9	.57	82	98	19 028.7
1971 ASM....	(NA)	(NA)	109.6	1 081.9	61.2	111.1	512.9	2 061.4	2 541.6	5 169.4	72.0	.60	83	94	18 363.1
1970 ASM....	(NA)	(NA)	128.0	1 301.1	71.8	133.9	630.3	2 103.5	3 013.8	5 493.5	78.2	.67	97	99	19 217.2
1969 ASM....	(NA)	(NA)	162.1	1 563.9	90.9	174.5	699.2	3 068.7	2 738.2	5 803.5	132.6	.81	123	103	20 035.5
1968 ASM....	(NA)	(NA)	172.7	1 505.7	95.0	181.4	678.1	2 833.2	2 725.8	5 576.7	181.6	.88	131	100	19 527.6
1967 CENSUS.	1 945	572	162.2	1 366.7	90.2	177.0	629.3	2 038.5	2 445.6	4 479.9	262.0	.84	123	99	19 323.2
1966 ASM....	(NA)	(NA)	145.6	1 218.4	85.6	166.4	568.5	1 641.2	2 000.3	3 763.7	249.7	.77	110	98	19 024.5
1965 ASM....	(NA)	(NA)	118.2	917.5	71.9	138.8	454.0	1 495.0	1 654.1	3 285.8	88.0	.66	90	92	18 010.2
1964 ASM....	(NA)	(NA)	126.4	909.0	74.1	147.0	451.8	1 704.5	1 366.2	3 314.1	67.9	.73	96	89	17 268.5
1963 CENSUS.	2 052	497	121.6	855.2	70.2	139.2	421.5	1 480.8	(NA)	(NA)	52.3	.72	92	87	16 958.4

(NA) Not available.

[1] In annual survey of manufactures (ASM) yeers, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all estsblishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2] Including central administrstive offices and auxiliaries (for definition, see appendix B).

[3] Aggregate of cost of materials and vslue of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see sppendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
WASHINGTON									
1977 CENSUS	15 297	68	1 871	7.05	59	78	33 787	45	26.48
1976 ASM	14 725	67	1 882	6.79	60	79	29 893	49	23.75
1975 ASM	13 245	67	1 841	6.07	59	78	29 402	45	23.79
1974 ASM	11 643	67	1 865	5.35	58	77	27 008	43	21.46
1973 ASM	10 727	70	1 862	4.95	56	75	23 422	46	17.92
1972 CENSUS	10 214	71	1 898	4.65	55	76	20 891	49	15.57
1971 ASM	9 342	67	1 866	4.36	52	71	18 654	50	14.89
1970 ASM	9 287	66	1 891	4.27	57	78	17 241	54	13.74
1969 ASM	8 963	65	1 912	3.92	52	75	18 815	48	15.11
1968 ASM	8 255	65	1 922	3.65	52	76	17 008	49	13.70
1967 CENSUS	7 828	66	1 939	3.42	56	81	13 905	56	10.92
1966 ASM	7 678	68	1 939	3.34	56	81	13 073	59	9.90
1965 ASM	7 215	70	1 957	3.18	54	77	13 653	53	9.93
1964 ASM	6 861	68	1 974	3.06	49	73	13 748	50	10.28
1963 CENSUS	6 591	68	1 953	2.96	(NA)	(NA)	12 856	51	9.70
SEATTLE-TACOMA SCSA									
1977 CENSUS	15 870	61	1 832	7.09	55	78	32 108	49	28.86
1972 CENSUS	10 847	63	1 892	4.72	51	76	20 125	54	16.89
PORTLAND, OREG.-WASH., SMSA									
1977 CENSUS	14 005	68	1 862	6.45	55	77	29 694	47	23.35
1976 ASM	12 998	69	1 832	6.27	56	77	27 344	48	21.60
1975 ASM	11 872	67	1 832	5.81	57	79	24 161	49	19.70
1974 ASM	10 789	71	1 854	5.10	58	79	22 179	49	16.82
1973 ASM	10 092	71	1 892	4.67	56	79	19 626	51	14.63
1972 CENSUS	9 362	72	1 889	4.35	55	78	18 483	51	13.54
1971 ASM	8 412	71	1 884	3.98	54	79	15 783	53	11.84
1970 ASM	7 745	71	1 892	3.66	54	78	15 188	51	11.38
1969 ASM	7 566	73	1 901	3.54	54	77	15 209	50	10.96
1968 ASM	7 277	73	1 928	3.39	55	78	14 684	50	10.41
1967 CENSUS	7 030	73	1 950	3.23	54	77	13 977	50	9.79
1966 ASM	6 835	73	1 971	3.15	56	78	13 484	51	9.39
1965 ASM	6 604	73	1 953	3.05	57	79	12 996	51	9.09
1964 ASM	6 312	73	1 957	2.90	56	79	12 313	51	8.60
1963 CENSUS	6 015	73	1 945	2.80	(NA)	(NA)	11 764	51	8.31
SEATTLE-EVERETT SMSA									
1977 CENSUS	16 012	60	1 820	7.12	55	78	31 551	51	29.10
1976 ASM	15 769	57	1 886	6.77	54	78	27 966	56	26.22
1975 ASM	14 340	57	1 853	6.16	51	75	29 141	49	27.64
1974 ASM	12 403	58	1 858	5.36	50	72	27 782	45	25.59
1973 ASM	11 452	61	1 813	5.09	51	74	22 484	51	20.29
1972 CENSUS	11 009	61	1 898	4.73	49	74	20 577	54	17.68
1971 ASM	9 871	56	1 815	4.62	49	70	18 808	52	18.55
1970 ASM	10 165	56	1 865	4.71	55	79	16 434	62	15.71
1969 ASM	9 648	56	1 920	4.01	47	74	18 931	51	17.59
1968 ASM	8 719	55	1 909	3.74	49	76	16 405	53	15.62
1967 CENSUS	8 426	56	1 962	3.56	55	85	12 568	67	11.52
1966 ASM	8 368	59	1 944	3.42	53	86	11 272	74	9.86
1965 ASM	7 762	61	1 930	3.27	50	78	12 648	61	10.77
1964 ASM	7 191	59	1 984	3.07	41	69	13 485	53	11.60
1963 CENSUS	7 033	58	1 983	3.03	(NA)	(NA)	12 178	58	10.64

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	6 723	5 345
With 1 to 19 employees	do	5 011	3 882
With 20 to 99 employees	do	1 239	1 067
With 100 employees or more	do	473	396
All employees, average for year[1]	1,000	265.0	226.0
Payroll for year, all employees[1]	mil. dollars	4 054.3	2 308.4
Production workers:			
Average for year	1,000	180.7	159.8
March	do	171.7	151.6
May	do	179.3	158.6
August	do	186.2	165.5
November	do	184.9	163.4
Hours	millions	338.2	303.3
January to March	do	80.7	71.1
April to June	do	86.0	76.9
July to September	do	87.3	77.7
October to December	do	84.2	77.6
Wages	mil. dollars	2 385.0	1 410.9
Cost of materials, etc.[2]	do	12 921.4	5 930.1
Materials, parts, containers, etc., consumed	do	11 074.1	5 224.5
Resales	do	1 041.8	364.0
Fuels consumed	do	280.5	100.7
Purchased electric energy	do	158.2	87.8
Contract work	do	366.8	153.1
Value of shipments, including resales[2]	do	21 746.9	10 815.7
Value of resales	do	1 245.9	471.7
Value added by manufacture	do	8 955.0	4 721.4
Manufacturers' inventories:			
Beginning of year	do	3 347.7	2 953.8
Finished products	do	1 020.7	494.6
Work in process	do	1 416.2	2 062.0
Materials, supplies, fuel, etc.	do	910.8	397.2
End of year	do	3 544.9	2 808.3
Finished products	do	1 059.2	470.5
Work in process	do	1 478.1	1 901.6
Materials, supplies, fuel, etc.	do	1 007.7	436.2
Capital expenditures for plant and equipment	do	940.7	369.4
New capital expenditures	do	850.0	353.7
New buildings and other structures	do	146.1	88.9
New machinery and equipment	do	703.9	264.8
Used capital expenditures	do	90.7	15.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	7,351.1	1
New capital expenditures	951.7	2
Used capital expenditures	93.1	5
Retirements	264.2	8
End of year	8,131.7	1
Buildings and other structures:		
Beginning of year	2,108.4	1
New capital expenditures	159.4	6
Used capital expenditures	15.0	8
Retirements	(65.0)	18
End of year	2,217.8	1
Machinery and equipment:		
Beginning of year	5,242.8	1
New capital expenditures	792.3	2
Automobiles, trucks, etc., for highway use	41.3	(NA)
Computers and peripheral data processing equip.	12.0	(NA)
All other	561.6	(NA)
New machinery and equipment, n.s.k.	177.4	(NA)
Used capital expenditures	78.1	5
Retirements	199.4	10
End of year	5,913.8	1
Rental payments:		
Total	100.9	4
Buildings and other structures	44.1	6
Machinery and equipment	56.9	4
Depreciation charges during 1977:		
Total	461.0	2
Buildings and other structures	93.1	3
Machinery and equipment	368.0	3
Supplemental labor costs:		
Total	931.8	1
Legal costs	350.1	2
Voluntary costs	581.7	1
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	23.3	1
Response coverage ratio (percent)	60	(X)
Machinery	(104.9)	21
Response coverage ratio (percent)	60	(X)
Cost of purchased communication services	(34.9)	99
Response coverage ratio (percent)	62	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
Washington	-	**6 723**	**1 712**	**265.0**	**4 054.3**	**180.7**	**338.2**	**2 385.0**	**8 955.0**	**12 921.4**	**21 746.9**	**850.0**	**226.0**	**4 721.4**
STANDARD CONSOLIDATED STATISTICAL AREAS														
Seattle-Tacoma	-	3 332	905	153.2	2 431.4	93.0	170.4	1 208.6	4 919.3	5 887.4	10 716.6	267.6	129.1	2 598.1
STANDARD METROPOLITAN STATISTICAL AREAS														
Portland, Oreg.-Wash.	-	2 440	724	99.4	1 392.1	67.9	126.4	815.4	2 951.6	3 823.4	6 544.8	236.4	86.4	1 596.9
Portion in Washington	-	258	69	12.2	179.0	9.5	18.3	129.5	439.2	717.2	1 156.8	33.1	11.3	245.9
Portion in Oregon	-	2 182	655	87.2	1 213.1	58.4	108.1	685.9	2 512.4	2 906.2	5 388.1	203.2	75.0	1 351.0
Richland-Kennewick	-	107	31	8.5	129.3	5.5	11.0	69.5	342.6	256.5	596.2	63.9	5.9	147.0
Seattle-Everett	-	2 717	733	131.9	2 111.6	78.8	143.0	1 017.8	4 161.0	4 940.0	9 015.4	213.4	108.6	2 234.7
Spokane	-	447	132	16.0	226.6	11.6	21.9	151.2	551.4	744.0	1 281.0	50.0	12.2	237.4
Tacoma	-	615	172	21.3	319.8	14.5	27.5	190.8	758.3	947.4	1 701.2	54.1	20.4	362.5
Yakima	-	234	85	8.0	101.5	6.5	12.9	76.0	245.9	453.4	690.1	19.0	6.6	142.6
COUNTIES														
Adams	-	12	3	0.9	8.8	0.7	1.5	6.7	19.7	43.6	63.3	0.1	(D)	(D)
Asotin	E1	13	1	0.1	1.2	0.1	0.2	1.0	4.0	3.7	7.7	0.1	(D)	(D)
Benton	-	66	21	6.5	108.6	3.9	7.8	53.8	289.0	108.4	394.0	(D)	4.5	127.5
Chelan	-	82	24	2.9	41.7	2.4	4.9	32.2	196.7	163.0	368.2	10.4	1.5	27.0
Clallam	E1	251	40	4.5	60.9	3.8	6.5	47.9	157.6	188.4	344.3	34.4	3.5	66.9
Clark	-	258	69	12.2	179.0	9.5	18.3	129.5	439.2	717.2	1 156.8	33.1	11.3	245.9
Columbia	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cowlitz	-	166	56	12.4	212.5	10.0	19.3	163.8	490.4	799.0	1 287.2	146.8	11.8	293.4
Douglas	-	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ferry	E1	19	3	0.3	4.4	0.3	0.6	4.0	11.0	9.0	19.8	0.6	0.4	5.7
Franklin	-	41	10	2.0	20.7	1.6	3.2	15.7	53.6	148.1	202.2	(D)	1.4	19.5
Garfield	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grant	-	39	11	2.1	23.0	1.8	3.5	17.6	82.8	109.2	178.6	3.5	2.5	78.9
Grays Harbor	-	324	73	9.1	130.2	7.7	13.7	105.2	366.1	505.4	859.4	51.0	7.8	157.6
Island	E1	23	3	0.3	2.7	0.2	0.4	1.9	8.3	3.2	11.7	0.5	0.1	2.4
Jefferson	-	56	3	0.8	12.9	0.7	1.4	11.6	32.7	33.4	66.3	(D)	1.0	21.9
King	-	2 212	619	110.5	1 786.9	63.4	115.5	819.5	3 313.6	3 796.9	6 951.7	169.7	89.4	1 840.9
Kitsap	-	73	11	1.3	19.8	0.8	1.4	8.2	35.3	25.0	59.3	1.1	0.7	15.1
Kittitas	-	54	6	0.8	10.7	0.7	1.3	9.0	23.2	90.5	113.5	1.3	2.0	47.2
Klickitat	-	56	11	1.5	23.4	1.3	2.4	18.7	56.0	94.5	152.8	4.0	1.6	36.9
Lewis	-	195	52	4.8	66.9	3.9	7.7	51.0	144.6	308.6	454.9	23.9	4.8	86.9
Lincoln	E3	10	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Mason	-	97	13	2.3	34.9	1.7	3.1	23.5	59.4	91.2	151.0	7.2	2.1	32.9
Okanogan	-	54	9	1.6	27.0	1.4	3.7	22.9	40.9	50.0	88.2	7.2	1.7	31.2
Pacific	-	68	15	1.2	14.2	1.1	1.8	12.0	24.6	39.1	63.7	1.3	1.2	22.1
Pend Oreille	-	39	7	0.5	7.0	0.5	0.9	6.2	16.2	19.6	36.0	1.6	0.3	8.0
Pierce	-	615	172	21.3	319.8	14.5	27.5	190.8	758.3	947.4	1 701.2	54.1	20.4	362.5
San Juan	E2	25	-	0.1	1.0	0.1	0.1	0.7	2.2	3.9	6.1	0.1	0.1	0.6
Skagit	-	151	34	4.1	56.1	3.2	5.8	40.5	114.0	866.1	981.3	11.7	4.4	98.6
Skamania	E1	25	6	0.9	11.2	0.8	1.4	9.7	17.1	24.8	42.5	2.5	0.9	12.7
Snohomish	-	505	114	21.4	324.7	15.2	27.4	198.2	847.4	1 143.1	2 063.7	43.8	19.2	393.9
Spokane	-	447	132	16.0	226.6	11.6	21.9	151.2	551.4	744.0	1 281.0	50.0	12.2	237.4
Stevens	-	94	16	1.7	25.9	1.5	3.0	21.0	46.0	86.6	130.1	14.8	1.0	18.4
Thurston	-	125	29	3.4	46.0	2.6	5.0	33.5	132.4	214.8	346.0	11.3	2.5	64.8
Wahkiakum	-	13	2	0.3	6.5	0.3	0.6	5.5	2.8	24.5	27.6	(D)	0.4	6.1
Walla Walla	-	62	16	2.2	27.9	1.6	3.1	19.2	77.8	90.2	165.5	(D)	1.9	47.6
Whatcom	-	183	41	6.4	103.5	4.9	9.5	71.9	280.5	958.9	1 249.2	53.7	4.9	135.7
Whitman	E3	20	2	0.1	1.3	0.1	0.1	0.7	2.0	2.1	4.1	0.1	(D)	(D)
Yakima	-	234	85	8.0	101.5	6.5	12.9	76.0	245.9	453.4	690.1	19.0	6.6	142.6
CITIES														
Aberdeen	-	81	18	1.7	25.1	1.4	2.7	20.0	98.6	65.1	158.6	7.6	1.5	34.2
Anacortes	-	26	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	57.8
Auburn	E3	66	11	0.9	10.3	0.7	1.2	6.7	44.5	26.1	54.5	1.8	0.8	11.6
Bellevue	E1	127	27	3.0	51.0	1.5	2.8	18.4	59.9	117.6	176.1	10.4	1.8	40.1
Bellingham	-	87	19	2.8	43.3	2.1	4.2	32.0	156.7	146.2	301.2	(D)	(D)	(D)
Camas	-	11	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Centralia	-	40	11	1.1	11.7	0.7	1.4	6.9	22.2	23.2	45.1	1.1	0.8	8.6
Chehalis	-	65	20	2.0	30.5	1.6	3.2	23.9	67.4	202.9	272.9	12.4	1.8	34.1
Colville	-	46	6	0.5	6.8	0.5	0.9	5.7	13.4	16.2	28.9	(D)	(NA)	(NA)
Everett	-	118	42	7.7	123.8	5.8	11.1	89.1	252.5	373.0	624.9	27.2	13.6	301.3
Hoquiam	-	88	24	3.7	55.7	3.1	5.4	44.9	140.6	230.2	364.3	27.7	3.2	51.6
Kelso	E1	28	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	7.2
Kennewick	-	30	4	0.8	10.7	0.7	1.3	8.3	38.2	35.0	71.5	3.2	(NA)	(NA)
Kent	-	125	48	4.5	64.0	2.9	5.6	32.1	128.9	155.4	279.9	5.0	2.6	45.9
Kirkland	E1	40	12	1.1	15.2	0.8	1.5	7.8	31.2	38.6	68.9	2.2	0.7	12.0
Longview	-	83	33	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.3	116.1
Lynnwood	E2	45	7	0.6	7.4	0.4	0.9	4.8	15.5	11.7	26.8	1.1	(NA)	(NA)
Marysville	-	36	6	1.1	13.3	0.9	1.7	9.8	23.5	34.1	56.7	1.6	0.7	11.6
Monroe	-	30	4	0.6	2.7	0.4	0.6	1.9	12.3	27.7	39.9	0.6	(NA)	(NA)
Moses Lake	-	25	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	60.8
Mount Vernon	-	35	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	13.5
Olympia	-	89	23	2.8	39.6	2.2	4.2	28.7	121.9	195.5	316.4	11.0	1.9	55.8
Omak	-	9	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Othello	-	7	3	0.8	8.6	0.7	1.5	6.6	19.3	43.3	62.5	(D)	(D)	(D)
Pasco	-	37	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
CITIES—Con.														
Port Angeles	-	86	15	2.0	28.0	1.7	3.0	21.8	68.5	97.1	163.9	21.1	2.1	44.4
Port Townsend	-	23	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Prosser	-	11	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	7.1
Puyallup	E1	30	9	0.6	5.6	0.5	0.9	4.3	11.2	13.5	24.3	1.0	(NA)	(NA)
Raymond	-	17	6	0.6	9.2	0.5	0.9	7.9	15.3	27.5	43.0	0.7	(D)	(D)
Redmond	-	58	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	28.8
Renton	-	74	25	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Richland	-	22	10	4.8	87.4	2.5	5.1	37.6	218.1	37.0	254.3	7.2	(D)	(D)
Seattle	-	1 270	372	61.2	985.8	34.5	64.5	442.4	1 804.7	1 748.0	3 637.4	83.2	54.9	1 097.7
Sedro-Woolley	-	35	5	0.9	14.3	0.7	1.3	10.5	24.9	29.7	54.6	2.8	1.1	16.0
Shelton	-	84	13	2.2	34.7	1.7	3.0	23.3	58.8	90.5	149.7	7.2	(D)	(D)
Spokane	E1	270	68	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.3	142.4
Sumner	-	24	9	0.6	6.9	0.4	0.8	5.2	13.6	19.9	33.2	(D)	0.7	10.2
Tacoma	-	341	121	14.9	219.0	11.0	21.1	149.6	505.8	696.0	1 198.5	36.2	16.4	300.7
Toppenish	-	9	4	0.8	9.9	0.7	1.4	8.8	40.0	95.9	130.7	1.0	0.8	23.1
Tukwila	-	36	16	0.9	12.6	0.6	1.3	7.3	28.3	34.6	62.9	1.3	(NA)	(NA)
Vancouver	-	97	32	5.0	65.7	3.9	7.3	46.7	146.2	199.4	345.0	17.3	4.9	105.6
Walla Walla	-	49	10	1.3	16.2	1.0	2.0	10.7	45.1	40.6	83.4	1.3	(D)	(D)
Washougal	E1	17	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wenatchee	-	45	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	14.2
Yakima	-	125	47	4.4	59.2	3.4	7.0	42.3	129.6	210.5	336.6	12.1	3.1	69.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	6 723	1 712	265.0	4 054.3	180.7	338.2	2 385.0	8 955.0	12 921.4	21 746.9	850.0	226.0	4 721.4
20	**Food and kindred products**	-	540	241	29.3	363.3	23.1	43.8	257.6	1 039.5	2 246.9	3 254.8	81.5	26.9	590.5
201	Meat products	-	48	23	3.2	45.5	2.6	5.3	38.5	81.6	489.3	570.6	11.6	2.7	61.6
2011	Meat packing plants	-	31	14	2.4	37.6	2.0	4.2	31.7	67.0	446.7	513.5	10.8	1.8	51.0
2013	Sausages and other prepared meats	-	9	3	0.2	3.1	0.2	0.3	2.6	8.6	8.9	17.4	0.4	BB	(D)
2016	Poultry dressing plants	-	8	6	0.6	4.8	0.4	0.8	4.1	6.0	33.7	39.7	0.4	CC	(D)
202	Dairy products	-	56	26	2.0	36.6	1.1	2.2	19.2	78.8	326.5	402.8	4.2	2.6	56.9
2022	Cheese, natural and processed	E2	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2024	Ice cream and frozen desserts	-	7	4	0.2	3.7	0.1	0.3	2.6	10.9	25.1	35.9	1.1	0.2	5.6
2026	Fluid milk	-	37	17	1.5	26.6	0.7	1.4	12.5	49.8	181.4	231.0	2.3	EE	(D)
203	Preserved fruits and vegetables	-	90	59	10.2	102.4	9.2	17.4	84.4	306.5	452.7	757.9	21.5	8.6	171.0
2033	Canned fruits and vegetables	-	26	18	3.0	29.3	2.7	5.2	25.1	95.7	155.6	250.5	4.8	EE	(D)
2034	Dehydrated fruits, vegetables, and soups	-	10	9	0.7	7.0	0.6	1.2	5.3	24.3	44.2	67.3	3.1	0.6	14.5
2035	Pickles, sauces, and salad dressings	-	8	3	0.5	5.2	0.4	0.7	4.0	18.7	43.2	61.9	0.3	BB	(D)
2037	Frozen fruits and vegetables	-	35	25	5.7	58.4	5.2	9.9	48.2	163.9	202.3	366.9	12.1	5.0	79.4
2038	Frozen specialties	E2	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
20	**Food and kindred products**—Con.														
204	Grain mill products	–	55	15	1.2	17.2	0.9	1.8	12.1	47.6	201.8	247.6	(D)	1.4	49.1
2041	Flour and other grain mill products	–	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2045	Blended and prepared flour	–	8	2	0.2	2.8	0.1	0.3	1.7	9.0	20.4	29.4	0.5	AA	(D)
2048	Prepared feeds, n.e.c.	–	30	8	0.5	5.9	0.3	0.6	3.7	17.1	87.7	104.3	0.6	0.5	20.2
205	Bakery products	–	42	14	2.6	40.1	1.6	2.8	22.1	102.2	52.7	154.8	7.3	2.5	41.9
2051	Bread, cake, and related products	–	38	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2052	Cookies and crackers	E1	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
206	Sugar and confectionery products	–	17	8	1.6	17.2	1.4	2.6	13.9	60.9	74.0	113.7	(D)	1.4	23.2
2063	Beet sugar	–	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2065	Confectionery products	–	14	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
207	Fats and oils	–	16	6	0.3	3.9	0.2	0.4	2.6	12.0	35.1	47.3	2.5	0.3	6.3
2077	Animal and marine fats and oils	–	14	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
208	Beverages	–	51	27	3.2	50.7	1.8	3.6	28.6	169.6	289.8	456.5	22.3	3.0	94.7
2082	Malt beverages	–	6	6	1.6	25.9	1.1	2.0	17.5	90.1	144.7	235.4	3.3	EE	(D)
2086	Bottled and canned soft drinks	–	34	16	1.3	19.2	0.6	1.2	8.4	59.0	101.4	159.7	10.2	EE	(D)
2087	Flavoring extracts and sirups, n.e.c.	–	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
209	Miscellaneous foods and kindred products	–	165	63	5.1	49.6	4.3	7.7	36.2	180.3	325.1	503.6	7.7	4.4	85.9
2091	Canned and cured seafoods	–	37	15	1.6	14.5	1.4	2.6	11.5	37.4	76.1	113.7	3.0	EE	(D)
2092	Fresh or frozen packaged fish	E1	69	34	2.1	18.1	1.8	3.1	14.2	81.4	179.3	259.6	2.4	1.4	21.0
2098	Macaroni and spaghetti	–	5	4	0.3	3.2	0.2	0.4	1.9	9.2	11.6	20.8	0.1	0.2	4.3
2099	Food preparations, n.e.c.	–	46	10	1.1	13.1	0.9	1.5	8.4	51.2	56.5	106.9	2.1	CC	(D)
22	**Textile mill products**	**E1**	**28**	**9**	**1.0**	**8.4**	**0.9**	**1.6**	**6.3**	**16.4**	**15.0**	**30.8**	**0.6**	**0.6**	**9.9**
2231	Weaving and finishing mills, wool	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
225	Knitting mills	E2	8	5	0.3	2.0	0.2	0.4	1.4	3.9	3.3	7.0	(D)	(NA)	(NA)
2253	Knit outerwear mills	E1	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
23	**Apparel and other textile products**	**–**	**195**	**66**	**6.6**	**50.2**	**5.7**	**10.1**	**37.0**	**91.5**	**102.2**	**194.8**	**4.5**	**6.3**	**66.9**
2311	Men's and boys' suits and coats	–	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
232	Men's and boys' furnishings	–	29	26	3.3	23.9	2.8	5.2	17.5	48.7	54.8	103.6	(D)	4.0	47.0
2327	Men's and boys' separate trousers	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2328	Men's and boys' work clothing	–	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2329	Men's and boys' clothing, n.e.c.	–	22	19	2.4	16.2	2.1	3.8	13.2	37.0	38.3	74.0	2.1	2.3	30.6
233	Women's and misses' outerwear	–	31	14	1.3	10.3	1.1	2.0	8.2	13.9	11.6	27.5	(D)	0.9	7.1
2337	Women's and misses' suits and coats	–	12	7	0.5	4.0	0.5	0.8	3.5	5.8	3.6	9.5	0.1	BB	(D)
2339	Women's and misses' outerwear, n.e.c.	E1	9	7	0.8	6.2	0.7	1.2	4.6	7.7	7.8	17.3	(D)	AA	(D)
236	Children's outerwear	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2363	Children's coats and suits	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
238	Miscellaneous apparel and accessories	E1	11	3	0.2	1.6	0.2	0.3	1.2	2.7	3.2	5.7	(D)	AA	(D)
239	Miscellaneous fabricated textile products	E1	110	19	1.3	10.7	1.1	2.0	7.4	18.7	24.9	43.3	(D)	1.0	10.4
2391	Curtains and draperies	E2	47	10	0.6	4.0	0.5	0.8	2.8	5.9	6.1	11.9	0.1	0.3	1.9
2394	Canvas and related products	–	30	4	0.4	3.5	0.3	0.6	2.3	5.5	6.5	11.9	0.2	0.2	2.0
24	**Lumber and wood products**	**–**	**2 113**	**429**	**51.7**	**725.5**	**45.4**	**86.1**	**603.8**	**1 540.6**	**2 577.2**	**4 096.6**	**200.1**	**48.3**	**941.7**
2411	Logging camps and logging contractors	–	1 155	106	15.4	227.6	13.4	24.5	192.5	543.8	1 090.9	1 632.0	96.0	FF	(D)
242	Sawmills and planing mills	–	571	177	20.2	284.0	18.0	35.1	242.1	579.8	842.1	1 405.9	80.5	FF	(D)
2421	Sawmills and planing mills, general	–	255	111	15.8	243.4	14.2	28.8	209.3	499.8	745.7	1 230.5	73.8	FF	(D)
2426	Hardwood dimension and flooring	–	14	4	0.4	2.3	0.4	0.5	1.8	3.3	3.2	6.7	(D)	0.3	2.9
2429	Special product sawmills, n.e.c.	E1	302	62	4.0	38.4	3.5	5.7	31.0	76.7	93.2	168.8	(D)	FF	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
24	**Lumber and wood products**—Con.														
243	Millwork, plywood, and structural members	-	248	97	12.2	166.0	10.7	20.6	136.7	325.9	483.7	807.8	18.6	12.5	224.1
2431	Millwork	-	101	37	3.5	43.4	3.1	5.7	34.8	84.4	136.5	220.6	2.3	FF	(D)
2434	Wood kitchen cabinets	-	71	16	1.6	22.0	1.4	2.6	16.0	34.5	30.0	66.1	1.0	1.3	14.4
2435	Hardwood veneer and plywood	-	11	5	0.8	11.7	0.7	1.3	10.0	18.9	41.5	60.5	0.5	0.9	18.9
2436	Softwood veneer and plywood	-	32	27	5.4	79.8	4.9	9.8	69.8	170.1	246.1	413.8	13.7	FF	(D)
2439	Structural wood members, n.e.c.	-	33	12	0.8	9.1	0.6	1.1	6.1	17.9	29.6	46.9	1.2	CC	(D)
244	Wood containers	E1	31	10	1.0	9.7	0.9	1.5	7.6	18.7	20.0	37.9	0.8	CC	(D)
2441	Nailed wood boxes and shook	-	11	3	0.5	5.4	0.5	0.8	4.3	10.1	10.3	19.7	0.3	BB	(D)
2448	Wood pallets and skids	E2	18	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.5
245	Wood buildings and mobile homes	E1	26	17	1.5	20.2	1.1	2.2	12.2	42.8	69.9	112.7	2.2	EE	(D)
2451	Mobile homes	-	8	7	0.8	9.9	0.7	1.4	7.3	20.3	37.0	57.2	0.6	0.8	9.9
2452	Prefabricated wood buildings	E3	18	10	0.7	10.3	0.4	0.8	4.9	22.5	32.9	55.4	1.6	BB	(D)
249	Miscellaneous wood products	-	82	22	1.5	17.9	1.2	2.2	12.6	29.6	70.5	100.2	2.0	1.2	14.8
2491	Wood preserving	-	21	9	0.6	8.4	0.5	0.9	6.2	11.6	33.8	45.5	0.9	CC	(D)
2499	Wood products, n.e.c.	-	60	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	7.7
25	**Furniture and fixtures**	**E1**	**144**	**45**	**3.2**	**31.5**	**2.6**	**4.5**	**21.9**	**72.5**	**56.6**	**127.9**	**3.3**	**2.5**	**33.5**
251	Household furniture	E2	84	24	1.7	15.5	1.5	2.5	11.2	36.7	32.7	68.9	(D)	1.6	17.5
2511	Wood household furniture	E1	49	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	7.0
2512	Upholstered household furniture	E3	15	10	0.8	7.1	0.7	1.1	5.3	12.7	12.5	25.2	(D)	BB	(D)
2515	Mattresses and bedsprings	E2	18	9	0.5	5.1	0.3	0.6	3.2	14.5	13.3	27.5	(D)	0.3	6.1
252	Office furniture	E1	9	4	0.2	1.9	0.2	0.3	1.5	3.5	2.1	5.6	(D)	(NA)	(NA)
2521	Wood office furniture	-	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2531	Public building and related furniture	-	8	6	0.7	8.1	0.5	0.9	5.2	17.9	13.0	30.4	(D)	0.5	8.7
254	Partitions and fixtures	E1	33	7	0.4	4.7	0.3	0.6	3.2	9.8	6.4	16.0	(D)	0.2	3.9
2541	Wood partitions and fixtures	-	31	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
259	Miscellaneous furniture and fixtures	E1	10	4	0.2	1.3	0.2	0.3	0.9	4.6	2.4	7.0	(D)	0.2	2.3
2599	Furniture and fixtures, n.e.c.	-	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
26	**Paper and allied products**	**-**	**95**	**67**	**16.9**	**309.3**	**13.4**	**26.5**	**238.3**	**784.6**	**1 141.4**	**1 927.6**	**239.0**	**17.2**	**470.7**
2611	Pulp mills	-	7	7	2.8	55.3	2.2	4.3	42.5	171.0	173.6	341.6	69.1	FF	(D)
2621	Paper mills, except building paper	-	13	12	7.0	133.7	5.6	10.8	104.2	361.4	476.9	843.4	114.6	5.4	134.1
2631	Paperboard mills	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	107.9
264	Miscellaneous converted paper products	-	41	20	3.2	50.5	2.6	5.3	39.5	120.0	243.6	364.2	(D)	2.6	68.3
2641	Paper coating and glazing	E1	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2642	Envelopes	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2643	Bags, except textile bags	-	11	9	1.0	14.2	0.8	1.6	10.9	30.7	44.7	75.1	1.7	CC	(D)
2645	Die-cut paper and board	-	6	2	0.2	2.0	0.1	0.2	1.4	3.7	5.0	8.7	(Z)	(NA)	(NA)
2647	Sanitary paper products	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
265	Paperboard containers and boxes	-	30	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2651	Folding paperboard boxes	-	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2653	Corrugated and solid fiber boxes	-	17	14	1.7	27.5	1.2	2.4	18.8	49.0	99.8	148.5	3.0	EE	(D)
2654	Sanitary food containers	-	3	3	0.3	4.2	0.2	0.4	3.1	10.6	24.9	35.2	0.6	BB	(D)
27	**Printing and publishing**	**E1**	**711**	**99**	**11.3**	**154.2**	**6.3**	**10.5**	**80.0**	**305.4**	**122.4**	**427.2**	**15.3**	**10.6**	**176.0**
2711	Newspapers	-	158	39	6.6	94.7	2.9	4.4	40.8	187.3	62.3	249.6	8.0	6.5	110.2
2721	Periodicals	E2	47	8	0.4	5.1	0.2	0.3	1.7	13.7	3.9	17.4	0.1	0.2	4.7
273	Books	E1	24	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.0
2732	Book printing	-	7	3	0.3	2.8	0.2	0.4	2.4	5.5	2.1	7.4	0.3	BB	(D)
275	Commercial printing	E2	398	34	2.9	37.8	2.3	4.1	26.3	73.0	40.7	113.5	5.7	2.5	40.5
2751	Commercial printing, letterpress	E4	219	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	13.0
2752	Commercial printing, lithographic	E1	171	26	1.9	26.2	1.4	2.6	18.2	49.6	27.4	76.8	4.4	1.6	26.9
2761	Manifold business forms	E1	13	6	0.4	5.8	0.3	0.5	3.4	10.4	8.3	18.8	0.6	0.3	4.0
278	Blankbooks and bookbinding	-	11	4	0.2	2.1	0.2	0.3	1.6	4.0	0.9	4.9	0.2	0.3	5.7
279	Printing trade services	E1	40	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2791	Typesetting	E1	31	1	0.2	2.2	0.1	0.3	1.8	3.9	0.6	4.5	0.2	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
28	**Chemicals and allied products**	–	**137**	**40**	**6.4**	**113.7**	**3.3**	**6.8**	**49.6**	**374.9**	**206.5**	**578.7**	**61.5**	**5.7**	**181.9**
281	Industrial inorganic chemicals	–	24	10	4.2	81.2	2.1	4.5	35.5	262.0	47.0	307.9	9.4	3.8	128.8
2812	Alkalies and chlorine	–	3	3	0.5	7.4	0.3	0.6	5.4	58.8	26.7	85.2	5.1	BB	(D)
2819	Industrial inorganic chemicals, n.e.c.	–	12	6	3.7	72.1	1.7	3.8	29.2	197.2	16.6	213.2	(D)	FF	(D)
282	Plastics materials and synthetics	–	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2821	Plastics materials and resins	–	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
283	Drugs	E2	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
284	Soaps, cleaners, and toilet goods	E1	17	4	0.2	3.2	0.1	0.2	1.1	11.2	11.8	22.8	0.8	(NA)	(NA)
2851	Paints and allied products	E1	26	10	0.6	9.7	0.3	0.6	3.3	26.3	31.4	57.1	1.0	0.6	12.2
286	Industrial organic chemicals	–	7	3	0.2	3.5	0.1	0.2	1.7	24.2	23.5	47.6	(D)	AA	(D)
287	Agricultural chemicals	–	22	6	0.5	6.8	0.4	0.7	4.3	24.7	28.2	50.3	(D)	0.3	10.5
2873	Nitrogenous fertilizers	–	7	4	0.2	4.3	0.2	0.3	2.8	18.6	21.3	37.5	(D)	(NA)	(NA)
2879	Agricultural chemicals, n.e.c.	E2	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
289	Miscellaneous chemical products	–	28	5	0.3	4.2	0.1	0.3	1.8	15.7	41.6	57.6	1.9	0.7	16.0
29	**Petroleum and coal products**	–	**26**	**15**	**2.8**	**53.0**	**2.0**	**3.8**	**34.4**	**81.8**	**1 585.1**	**1 683.0**	**33.8**	**2.1**	**120.7**
2911	Petroleum refining	–	7	7	1.5	31.6	1.0	1.9	18.8	46.7	1 528.7	1 591.9	27.4	EE	(D)
295	Paving and roofing materials	–	13	7	1.3	20.9	0.9	1.8	15.3	33.2	54.0	87.0	(D)	CC	(D)
2951	Paving mixtures and blocks	–	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2952	Asphalt felts and coatings	–	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
30	**Rubber and miscellaneous plastics products**	–	**151**	**50**	**3.8**	**45.5**	**2.8**	**5.4**	**28.6**	**104.9**	**103.0**	**207.0**	**5.4**	**1.9**	**30.5**
3069	Fabricated rubber products, n.e.c.	–	9	5	0.4	3.3	0.3	0.5	2.4	8.7	4.6	13.1	0.2	AA	(D)
3079	Miscellaneous plastics products	–	139	44	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	27.4
31	**Leather and leather products**	**E1**	**19**	**6**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**0.3**	**4.4**
3161	Luggage	–	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
32	**Stone, clay, and glass products**	**E1**	**293**	**75**	**6.4**	**90.8**	**4.7**	**9.4**	**61.3**	**222.2**	**213.7**	**437.2**	**23.9**	**5.5**	**113.9**
322	Glass and glassware, pressed or blown	–	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3221	Glass containers	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3231	Products of purchased glass	E1	15	1	0.2	2.1	0.1	0.3	1.5	4.9	8.7	13.6	0.2	(NA)	(NA)
3241	Cement, hydraulic	–	5	4	0.5	8.3	0.4	0.8	6.5	40.4	33.5	74.2	1.3	0.4	17.7
325	Structural clay products	E1	11	6	0.4	4.4	0.3	0.7	3.1	10.8	6.7	17.3	0.4	0.3	5.2
3251	Brick and structural clay tile	E1	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.8
327	Concrete, gypsum, and plaster products	E1	191	57	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	64.9
3271	Concrete block and brick	–	13	4	0.2	3.2	0.1	0.3	1.7	6.8	10.0	16.8	0.5	AA	(D)
3272	Concrete products, n.e.c.	E1	81	15	1.2	16.8	0.9	1.7	10.7	31.6	29.1	60.5	2.8	1.5	29.0
3273	Ready-mixed concrete	E1	93	35	2.3	34.9	1.5	3.0	21.6	72.7	82.2	154.7	10.8	1.7	28.9
329	Miscellaneous nonmetallic mineral products	E1	34	5	0.8	8.7	0.6	1.2	6.2	24.4	17.6	42.2	2.3	0.5	9.1
3291	Abrasive products	–	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3299	Nonmetallic mineral products, n.e.c.	E1	14	2	0.3	2.9	0.3	0.5	2.1	9.3	4.7	14.1	1.7	(NA)	(NA)
33	**Primary metal industries**	–	**110**	**52**	**15.3**	**272.1**	**12.0**	**23.2**	**206.1**	**992.9**	**1 182.1**	**2 173.2**	**56.1**	**13.0**	**365.1**
331	Blast furnace and basic steel products	–	14	5	1.9	31.8	1.4	2.5	22.6	73.9	75.5	148.5	(D)	1.8	42.9
3312	Blast furnaces and steel mills	–	7	3	1.7	28.8	1.3	2.3	20.6	63.9	52.7	115.8	1.7	1.6	37.5
332	Iron and steel foundries	–	27	17	1.9	25.1	1.6	2.8	19.7	47.9	29.3	76.9	3.6	1.3	18.6
3321	Gray iron foundries	E1	13	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.3
3325	Steel foundries, n.e.c.	–	13	10	1.4	19.5	1.1	2.1	15.2	36.9	23.6	60.6	3.1	1.0	14.3
333	Primary nonferrous metals	–	12	11	6.8	132.9	5.4	10.8	100.4	658.1	690.0	1 354.9	19.4	6.1	239.6
3331	Primary copper	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3334	Primary aluminum	–	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3339	Primary nonferrous metals, n.e.c.	–	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3341	Secondary nonferrous metals	–	6	3	0.3	3.4	0.2	0.4	2.3	11.1	20.1	30.6	0.7	AA	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
33	**Primary metal industries—Con.**														
335	Nonferrous rolling and drawing	-	11	9	3.8	71.1	2.9	5.7	55.2	189.2	354.4	537.1	(D)	FF	(D)
3353	Aluminum sheet, plate, and foil	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3354	Aluminum extruded products	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3355	Aluminum rolling and drawing, n.e.c.	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3356	Nonferrous rolling and drawing, n.e.c.	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
336	Nonferrous foundries	-	27	7	0.5	7.1	0.5	0.8	5.4	10.7	11.8	21.9	0.6	0.3	4.4
3361	Aluminum foundries	-	8	6	0.4	5.7	0.4	0.6	4.4	7.7	9.0	16.3	0.3	0.2	2.2
34	**Fabricated metal products**	-	**478**	**124**	**10.8**	**158.3**	**8.2**	**15.7**	**106.3**	**345.7**	**327.3**	**665.9**	**20.6**	**7.5**	**145.9**
341	Metal cans and shipping containers	-	8	5	0.7	13.4	0.6	1.4	11.8	67.2	76.0	140.5	(D)	CC	(D)
3411	Metal cans	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
342	Cutlery, hand tools, and hardware	E3	32	4	0.4	5.4	0.3	0.7	3.7	11.1	7.9	18.9	0.4	BB	(D)
3429	Hardware, n.e.c.	E4	22	3	0.3	3.5	0.2	0.5	2.5	7.1	5.1	12.2	(D)	AA	(D)
343	Plumbing and heating, except electric	E1	16	3	0.4	5.5	0.3	0.7	3.9	10.3	10.1	18.7	0.2	AA	(D)
3433	Heating equipment, except electric	E1	16	3	0.4	5.5	0.3	0.7	3.9	10.3	10.1	18.7	0.2	AA	(D)
344	Fabricated structural metal products	E1	234	72	6.4	101.3	4.6	8.9	63.8	194.0	183.4	375.5	12.7	FF	(D)
3441	Fabricated structural metal	-	55	30	2.2	39.7	1.7	3.3	27.6	76.3	55.8	134.2	3.1	1.8	33.8
3442	Metal doors, sash, and trim	-	39	11	1.1	13.9	0.9	1.6	8.3	29.1	33.9	62.1	1.2	0.8	13.7
3443	Fabricated plate work (boiler shops)	E1	37	12	1.6	27.1	1.0	2.1	14.9	43.6	30.8	72.7	5.8	CC	(D)
3444	Sheet metal work	E1	62	15	1.1	15.9	0.8	1.6	10.6	36.9	51.1	87.0	2.3	0.8	15.3
3448	Prefabricated metal buildings	E1	10	3	0.2	2.6	0.1	0.2	1.3	4.1	6.2	10.1	0.1	(NA)	(NA)
346	Metal forgings and stampings	E4	26	7	0.6	3.2	0.4	0.6	2.2	4.6	5.4	10.1	(D)	0.2	3.1
3469	Metal stampings, n.e.c.	E3	22	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
347	Metal services, n.e.c.	E1	57	8	0.7	9.3	0.6	1.2	6.7	17.0	6.2	23.2	0.8	0.5	8.2
3471	Plating and polishing	E1	39	7	0.6	7.5	0.5	1.0	5.4	14.1	4.3	18.2	0.7	0.4	6.4
349	Miscellaneous fabricated metal products	E1	91	20	1.3	16.8	1.0	1.9	12.4	33.8	33.4	66.9	2.4	CC	(D)
3496	Miscellaneous fabricated wire products	-	17	4	0.3	3.0	0.2	0.4	1.9	7.6	11.8	19.3	0.7	AA	(D)
3498	Fabricated pipe and fittings	-	9	2	0.4	5.7	0.3	0.6	4.7	10.5	9.5	20.1	(D)	AA	(D)
3499	Fabricated metal products, n.e.c.	E1	53	8	0.4	5.2	0.3	0.6	3.8	10.3	7.9	17.8	0.8	BB	(D)
35	**Machinery, except electrical**	**E1**	**642**	**129**	**13.8**	**204.0**	**9.1**	**17.6**	**119.6**	**386.4**	**303.6**	**683.0**	**18.5**	**10.3**	**169.7**
352	Farm and garden machinery	E1	45	10	0.8	10.8	0.6	1.1	7.0	22.0	21.8	43.8	1.0	BB	(D)
3523	Farm machinery and equipment	E2	43	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3524	Lawn and garden equipment	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
353	Construction and related machinery	-	70	29	3.3	51.8	2.1	4.0	30.2	110.2	106.1	212.8	5.5	EE	(D)
3531	Construction machinery	-	31	14	2.0	32.4	1.4	2.6	20.6	72.7	65.0	129.0	4.7	1.5	23.9
3532	Mining machinery	E1	7	3	0.4	6.2	0.1	0.3	1.9	13.2	17.5	36.6	0.3	(NA)	(NA)
3536	Hoists, cranes, and monorails	E1	9	5	0.5	7.0	0.3	0.6	4.4	13.1	11.9	24.2	0.1	BB	(D)
3537	Industrial trucks and tractors	-	13	6	0.3	5.0	0.2	0.4	2.7	9.2	9.6	18.9	0.3	(NA)	(NA)
354	Metalworking machinery	E2	39	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	9.9
3541	Machine tools, metal cutting types	E6	9	2	0.2	2.5	0.1	0.2	1.7	4.7	2.3	7.0	0.1	(NA)	(NA)
3542	Machine tools, metal forming types	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
355	Special industry machinery	-	77	20	2.6	40.5	1.6	3.0	22.7	70.3	60.7	128.6	2.3	FF	(D)
3551	Food products machinery	E1	18	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3553	Woodworking machinery	-	16	5	0.6	9.6	0.4	0.7	5.5	20.9	12.4	33.2	0.2	EE	(D)
3554	Paper industries machinery	-	3	3	0.5	8.1	0.3	0.5	3.9	14.2	10.7	23.6	(D)	CC	(D)
3555	Printing trades machinery	-	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3559	Special industry machinery, n.e.c.	-	31	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
356	General industrial machinery	E1	47	10	0.8	11.8	0.6	1.1	6.8	22.0	19.3	41.2	1.2	BB	(D)
3569	General industrial machinery, n.e.c.	-	26	6	0.5	6.5	0.3	0.6	3.3	13.1	12.3	25.0	1.1	(NA)	(NA)
357	Office and computing machines	-	25	5	1.3	17.0	0.6	1.4	5.5	39.0	22.6	61.1	2.0	0.9	15.0
3573	Electronic computing equipment	-	14	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3579	Office machines, n.e.c. and typewriters	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
35	**Machinery, except electrical**—Con.														
358	Refrigeration and service machinery	–	25	7	0.6	8.9	0.5	0.9	5.9	16.5	18.2	35.3	0.7	(NA)	(NA)
3585	Refrigeration and heating equipment	–	9	4	0.4	5.2	0.2	0.5	3.6	9.5	12.1	22.3	0.3	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	309	40	3.4	50.2	2.6	5.0	32.8	88.2	43.5	129.6	5.0	2.7	38.0
3599	Machinery, except electrical, n.e.c.	E2	307	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
36	**Electric and electronic equipment**	**E1**	**205**	**53**	**5.9**	**74.9**	**3.4**	**6.5**	**32.9**	**150.2**	**107.9**	**253.7**	**8.0**	**3.5**	**61.6**
361	Electric distributing equipment	E1	16	5	0.3	3.8	0.2	0.4	2.7	8.4	10.5	18.9	0.2	BB	(D)
3613	Switchgear and switchboard apparatus	E1	14	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
362	Electrical industrial apparatus	E1	22	7	0.3	4.7	0.2	0.4	2.5	9.8	7.8	17.1	0.3	AA	(D)
3622	Industrial controls	–	11	3	0.2	2.8	0.1	0.2	1.2	5.3	4.3	9.2	0.1	(NA)	(NA)
363	Household appliances	–	12	5	0.4	3.9	0.3	0.5	2.3	8.5	13.1	22.2	0.3	(NA)	(NA)
3634	Electric housewares and fans	–	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
364	Electric lighting and wiring equipment	–	13	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3646	Commercial lighting fixtures	–	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3647	Vehicular lighting equipment	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
365	Radio and TV receiving equipment	–	13	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3651	Radio and TV receiving sets	–	9	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
366	Communication equipment	–	56	20	2.7	36.8	1.2	2.3	11.3	66.1	42.6	104.6	5.1	1.8	30.9
3661	Telephone and telegraph apparatus	–	12	5	0.7	7.6	0.4	0.8	3.3	13.9	16.4	29.9	(D)	CC	(D)
3662	Radio and TV communication equipment	–	44	15	2.0	29.2	0.8	1.5	8.0	52.1	26.3	74.7	(D)	EE	(D)
367	Electronic components and accessories	E4	44	5	0.5	5.4	0.4	0.8	3.2	11.0	5.5	16.7	0.5	AA	(D)
3679	Electronic components, n.e.c.	E5	39	4	0.5	4.8	0.4	0.7	3.0	10.2	5.1	15.5	0.5	AA	(D)
369	Miscellaneous electrical equipment and supplies	–	29	5	0.6	8.2	0.3	0.6	3.6	20.6	11.1	31.5	0.4	BB	(D)
3693	X-ray, electromedical, and electrotheraputic apparatus	–	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
37	**Transportation equipment**	**–**	**343**	**89**	**62.7**	**1 119.3**	**32.0**	**55.0**	**442.2**	**2 221.2**	**2 523.5**	**4 683.3**	**67.5**	**51.2**	**1 138.2**
371	Motor vehicles and equipment	–	61	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3711	Motor vehicles and car bodies	–	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3713	Truck and bus bodies	E1	10	2	0.2	2.5	0.1	0.2	1.6	4.1	5.6	9.5	(Z)	(NA)	(NA)
3714	Motor vehicle parts and accessories	E1	34	7	0.5	7.2	0.4	0.8	5.2	14.2	14.7	28.6	0.4	BB	(D)
3715	Truck trailers	–	10	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3716	Motor homes produced on purchased chassis	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts	–	42	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3721	Aircraft	–	8	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3728	Aircraft equipment, n.e.c.	–	32	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
373	Ship and boat building and repairing	–	190	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3731	Ship building and repairing	–	32	16	7.1	119.3	5.7	11.2	84.5	242.2	121.4	363.7	5.9	FF	(D)
3732	Boat building and repairing	–	158	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	31.0
3743	Railroad equipment	–	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
376	Guided missiles, space vehicles, parts	–	4	3	0.8	15.9	0.2	0.4	2.7	21.2	7.1	28.8	(D)	FF	(D)
3761	Guided missiles and space vehicles	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3764	Space propulsion units and parts	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3769	Space vehicle equipment, n.e.c.	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
379	Miscellaneous transportation equipment	E1	35	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.1
3792	Travel trailers and campers	E2	25	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3799	Transportation equipment, n.e.c.	–	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.0

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capitel expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
38	**Instruments and related products**	-	**86**	**17**	**3.2**	**42.9**	**2.0**	**3.7**	**20.5**	**101.5**	**37.9**	**138.2**	**5.8**	**2.8**	**56.4**
3811	Engineering end scientific instruments	-	10	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
382	Measuring and controlling devices	-	24	5	1.4	17.9	0.9	1.9	9.0	46.6	15.4	61.1	(D)	CC	(D)
3825	Instruments to measure electricity	-	8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
384	Medicel instruments and supplies	E1	26	4	0.3	3.6	0.2	0.3	1.6	7.9	5.9	13.8	0.5	0.8	17.2
3861	Photographic equipment end supplies	E3	10	3	0.2	2.6	0.1	0.1	1.2	5.1	3.0	8.0	0.2	(NA)	(NA)
39	**Miscellaneous manufacturing industries**	**E1**	**278**	**47**	**FF**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**2.9**	**43.9**
391	Jewelry, silverwere, and plated ware	E2	40	8	0.5	5.0	0.4	0.6	3.1	10.3	7.8	17.1	(D)	0.2	3.3
3911	Jewelry, precious metal	E1	35	8	0.5	4.9	0.4	0.6	3.1	10.1	7.4	16.5	(D)	AA	(D)
394	Toys end sporting goods	E1	69	15	1.9	18.4	1.5	2.9	12.5	45.0	29.9	72.3	(D)	1.2	19.4
3949	Sporting and athletic goods, n.e.c.	-	59	14	1.8	17.9	1.5	2.8	12.2	43.7	28.9	69.9	(D)	EE	(D)
399	Miscellaneous manufactures	E1	143	20	2.0	24.4	1.6	3.2	18.2	55.3	20.4	73.7	(D)	1.2	17.8
3993	Signs and advertising displays	-	70	13	1.3	18.3	1.1	2.3	14.0	42.4	12.6	53.2	2.2	0.7	11.1
3999	Manufacturing industries, n.e.c.	E5	60	5	0.5	4.9	0.4	0.7	3.3	9.9	5.3	15.0	(D)	0.3	3.7
–	**Administrative and auxiliary**	-	**129**	**59**	**8.8**	**183.4**	-	-	-	-	-	-	-	**(NA)**	**(NA)**

Note: "All industries" level includes data on number of esteblishments, total employment, end total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less then 50 thousand dollars or hours; under 50 employees.

[1]Payroll end sales data for smell single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government egencies rather than from census report forms. These dete were then used in conjunction with industry averages to estimate the balence of items shown for these small establishments. This technique was also used for e small number of other esteblishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups end industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Stetistics for some industry groups end industries are withheld to evoid disclosing figures for individuel companies. However, for such industry groups end industries with 150 employees or more, number of esteblishments is shown and employment size range is indiceted by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Stetistics for industry groups shown include deta for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and velue of shipments for industry groups (2- and 3-digit) and for ell manufacturing industries includes extensive duplicetion, since products of some industries are used as materiels by others (see eppendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanetion of terms, see appendix B]

SIC code	SMSA end industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Velue added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Velue of shipments[2] (million dollers)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Seattle-Tacoma SCSA	-	**3 332**	**905**	**153.2**	**2 431.4**	**93.0**	**170.4**	**1 208.6**	**4 919.3**	**5 887.4**	**10 716.6**	**267.6**	**129.1**	**2 598.1**
208	Beverages	-	21	11	1.3	20.4	0.7	1.4	10.4	61.9	104.9	164.4	10.7	(NA)	(NA)
2099	Food preparations, n.e.c.	-	26	6	0.5	6.8	0.4	0.6	3.7	25.0	33.1	57.4	(D)	(NA)	(NA)
242	Sawmills and planing mills	-	104	34	5.1	71.9	4.6	8.8	60.5	133.4	236.2	366.7	19.4	(NA)	(NA)
243	Millwork, plywood, end structurel members	-	123	43	4.7	61.8	4.0	7.5	48.7	111.1	164.3	272.4	3.8	(NA)	(NA)
2431	Millwork	E1	55	22	2.1	25.9	1.8	3.2	20.2	47.8	69.5	117.0	1.2	(NA)	(NA)
2434	Wood kitchen cabinets	-	41	10	0.8	10.2	0.6	1.2	7.5	14.6	14.4	28.5	0.4	(NA)	(NA)
249	Miscelleneous wood products	-	46	12	0.8	9.7	0.6	1.2	6.9	16.8	26.4	43.0	(D)	(NA)	(NA)
26	Paper and allied products	-	49	31	4.9	85.4	3.7	7.3	64.1	209.8	321.8	531.1	(D)	5.1	133.0
2752	Commercial printing, lithographic	E1	113	18	1.5	21.1	1.1	2.1	14.7	39.8	22.9	62.7	3.7	(NA)	(NA)

See footnotes et end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Seattle-Tacoma SCSA—Con.														
28	Chemicals and allied products	–	80	24	1.8	27.2	0.9	1.8	12.8	107.6	111.9	218.1	12.1	2.0	59.6
32	Stone, clay, and glass products	E1	133	41	3.9	54.3	3.0	5.7	38.0	138.5	125.7	266.3	13.0	3.6	76.4
3273	Ready-mixed concrete	E1	25	12	0.9	13.6	0.6	1.0	8.6	31.3	28.7	59.9	(D)	(NA)	(NA)
34	Fabricated metal products	–	317	87	7.4	106.8	5.7	11.0	73.1	212.1	193.7	403.8	(D)	(NA)	(NA)
3441	Fabricated structural metal	–	36	22	1.7	32.0	1.3	2.6	22.1	50.6	42.8	95.0	2.2	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	E3	19	7	0.6	10.0	0.5	1.0	6.3	18.5	14.7	33.1	(D)	(NA)	(NA)
3444	Sheet metal work	E1	40	9	0.7	10.1	0.6	1.1	7.4	23.8	21.3	44.6	1.1	(NA)	(NA)
	Portland, Oreg.-Wash., SMSA	–	**2 440**	**724**	**99.4**	**1 392.1**	**67.9**	**126.4**	**815.4**	**2 951.6**	**3 623.4**	**6 544.8**	**236.4**	**86.4**	**1 596.9**
20	Food and kindred products	–	151	78	8.4	117.2	5.7	10.7	69.7	347.4	719.8	1 067.6	28.4	9.3	237.7
201	Meat products	E1	22	12	1.4	19.8	1.1	2.2	14.3	41.8	187.9	229.2	2.3	1.4	28.1
202	Dairy products	–	17	8	0.7	13.1	0.3	0.6	6.2	37.6	93.9	130.8	1.1	1.0	24.0
2026	Fluid milk	–	14	8	0.7	12.8	0.3	0.6	6.0	36.8	91.0	127.1	(D)	(NA)	(NA)
2037	Frozen fruits and vegetables	–	4	3	0.3	2.5	0.2	0.3	1.4	5.6	13.0	18.6	(D)	(NA)	(NA)
204	Grain mill products	–	13	10	0.6	9.1	0.4	0.7	5.4	30.8	86.5	118.1	0.9	0.8	22.4
2048	Prepared feeds, n.e.c.	–	9	6	0.3	3.9	0.2	0.3	2.0	9.1	38.2	47.3	0.4	0.3	7.6
208	Beverages	–	14	10	0.9	16.4	0.4	0.8	7.4	59.3	69.1	127.7	8.3	1.1	44.8
2086	Bottled and canned soft drinks	–	7	6	0.4	6.6	0.1	0.2	1.8	16.1	12.3	28.4	(D)	0.5	11.5
209	Miscellaneous foods and kindred products	–	24	10	0.9	10.3	0.7	1.2	6.6	38.9	64.1	102.9	0.9	0.9	18.1
239	Miscellaneous fabricated textile products	E1	49	11	0.8	6.8	0.6	1.2	4.3	14.0	15.1	28.8	0.3	1.2	13.7
2391	Curtains and draperies	E2	23	5	0.3	2.5	0.2	0.4	1.2	4.6	4.3	8.7	(Z)	0.3	1.6
24	Lumber and wood products	–	360	95	9.5	122.6	8.2	15.6	98.1	327.3	410.2	728.0	24.2	9.3	156.7
2411	Logging camps and logging contractors	E2	131	10	1.3	17.9	1.2	2.0	14.4	28.6	44.4	71.4	3.2	1.4	15.4
242	Sawmills and planing mills	–	78	34	3.2	42.8	2.8	5.4	35.3	169.9	179.1	344.5	13.6	3.8	70.8
2421	Sawmills and planing mills, general	–	56	31	2.8	40.3	2.5	4.9	33.1	165.0	174.3	334.9	13.4	3.5	69.0
2426	Hardwood dimension and flooring	–	5	3	0.3	1.6	0.2	0.4	1.4	2.8	3.1	5.9	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members	–	92	30	3.1	41.3	2.6	5.1	33.0	88.5	123.9	210.4	4.4	3.0	56.3
2431	Millwork	E1	32	9	1.1	14.2	0.9	1.7	10.8	30.0	46.4	76.4	0.7	(NA)	(NA)
2434	Wood kitchen cabinets	–	32	8	0.7	6.6	0.6	1.0	5.5	13.1	11.0	23.9	1.7	0.3	4.9
2435	Hardwood veneer and plywood	–	6	3	0.3	3.6	0.2	0.3	2.0	5.5	22.2	28.0	0.2	0.3	8.5
2436	Softwood veneer and plywood	–	5	3	0.6	11.4	0.6	1.4	10.9	26.9	29.7	54.7	1.4	(NA)	(NA)
2439	Structural wood members, n.e.c.	–	17	7	0.4	5.6	0.3	0.7	3.8	13.1	14.6	27.3	0.3	0.3	4.1
244	Wood containers	E3	13	4	0.3	2.3	0.3	0.5	2.0	3.7	6.5	10.1	0.2	(NA)	(NA)
245	Wood buildings and mobile homes	E1	9	4	0.4	5.0	0.4	0.8	3.5	10.0	15.1	25.0	0.4	(NA)	(NA)
2451	Mobile homes	E1	4	3	0.3	3.9	0.3	0.6	2.8	7.5	13.9	21.4	(D)	(NA)	(NA)
249	Miscellaneous wood products	E1	37	13	1.1	13.3	1.0	1.9	9.8	26.6	41.2	66.6	2.3	0.8	11.2
2491	Wood preserving	E1	7	5	0.3	4.6	0.3	0.5	3.5	8.3	24.6	32.8	0.6	(NA)	(NA)
2499	Wood products, n.e.c.	E1	30	8	0.8	8.7	0.7	1.3	6.3	18.3	16.6	33.8	1.7	(NA)	(NA)
25	Furniture and fixtures	–	82	24	2.3	24.3	1.9	3.5	17.4	47.1	41.6	89.7	1.1	2.1	30.0
251	Household furniture	E1	44	13	1.5	14.8	1.3	2.4	10.9	27.9	26.5	54.8	0.7	1.7	24.5
2511	Wood household furniture	E1	23	4	0.7	6.1	0.6	1.1	4.7	11.1	8.0	19.4	0.4	1.1	14.7
2512	Upholstered household furniture	E1	14	8	0.7	7.1	0.6	1.1	5.3	11.4	12.8	24.4	(D)	0.5	6.3
254	Partitions and fixtures	–	21	6	0.5	5.2	0.4	0.7	3.8	10.2	9.1	20.2	0.3	(NA)	(NA)
26	Paper and allied products	–	41	25	6.5	112.4	5.1	10.3	84.1	273.2	432.1	706.0	24.5	6.7	155.4
2621	Paper mills, except building paper	–	4	4	3.4	66.1	2.6	5.2	48.1	171.1	208.1	380.9	17.0	3.5	97.1
264	Miscellaneous converted paper products	–	23	12	2.5	37.7	2.1	4.3	30.0	81.9	185.2	266.3	5.5	2.4	41.9
265	Paperboard containers and boxes	–	12	8	0.5	8.2	0.4	0.8	5.5	19.0	38.0	56.9	(D)	0.7	14.8
2711	Newspapers	–	30	10	2.0	25.9	0.7	1.2	9.2	60.0	31.5	91.6	2.1	1.7	35.8
275	Commercial printing	E1	199	24	1.8	24.6	1.3	2.3	16.5	44.9	33.5	78.0	2.5	1.3	22.2
2751	Commercial printing, letterpress	E4	100	7	0.5	5.1	0.4	0.7	3.5	8.6	6.0	14.6	(D)	0.3	4.7
2752	Commercial printing, lithographic	–	93	16	1.2	18.5	0.9	1.6	12.3	35.4	27.1	62.2	(D)	0.9	16.2
2761	Manifold business forms	E4	9	6	0.3	4.9	0.2	0.5	3.2	12.8	16.8	29.2	0.7	0.3	4.1
278	Blankbooks and bookbinding	–	9	6	0.4	4.2	0.3	0.6	3.3	7.9	2.9	10.7	0.3	(NA)	(NA)
28	Chemicals and allied products	–	83	29	1.8	25.4	1.0	1.9	12.0	94.9	118.4	212.8	8.3	1.5	48.9
281	Industrial inorganic chemicals	–	9	5	0.5	7.5	0.3	0.5	4.1	32.1	27.5	59.6	2.3	0.4	14.9
2851	Paints and allied products	E2	15	5	0.3	3.9	0.1	0.2	1.6	9.4	13.1	22.4	0.2	0.3	4.8

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Portland, Oreg.-Wash., SMSA—Con.													
28	Chemicals and allied products—Con.													
289	Miscellaneous chemical products	-	25	5	0.3	5.3	0.2	0.4	2.3	26.2	36.4	62.3	3.1	0.3	15.0
29	Petroleum and coal products	-	16	9	0.5	7.7	0.3	0.7	5.0	19.8	82.7	100.8	2.0	0.4	15.3
295	Paving and roofing materials	-	10	6	0.4	5.3	0.2	0.5	3.5	13.5	31.0	44.0	1.6	(NA)	(NA)
2952	Asphalt felts and coatings	-	7	5	0.3	4.5	0.2	0.5	3.0	10.5	27.5	37.7	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	73	27	1.9	20.9	1.5	2.9	13.5	48.3	47.1	94.5	3.0	1.2	18.2
3079	Miscellaneous plastics products	-	62	20	1.5	15.6	1.2	2.2	9.9	37.1	36.8	73.0	2.5	0.9	12.2
32	Stone, clay, and glass products	-	95	25	2.2	29.9	1.6	3.0	20.8	71.8	60.1	132.6	5.8	2.0	45.2
327	Concrete, gypsum, and plaster products	-	59	16	1.1	16.1	0.7	1.3	9.7	36.7	36.2	72.3	3.1	1.1	24.5
3272	Concrete products, n.e.c.	-	27	5	0.4	4.8	0.3	0.6	3.3	9.7	8.3	17.5	0.8	(NA)	(NA)
3273	Ready-mixed concrete	-	27	11	0.7	10.4	0.4	0.7	6.0	25.3	25.3	50.7	2.1	0.6	13.6
33	Primary metal industries	-	54	25	6.5	105.5	4.9	9.2	74.7	299.7	376.5	671.6	37.2	5.9	116.5
332	Iron and steel foundries	-	16	13	3.3	48.5	2.3	4.4	32.1	110.9	41.4	152.6	3.6	2.4	41.5
336	Nonferrous foundries	E2	18	3	0.3	3.7	0.2	0.5	2.8	6.8	4.6	11.3	0.4	(NA)	(NA)
34	Fabricated metal products	-	273	87	9.0	118.5	7.0	13.1	81.9	264.7	265.8	523.8	12.6	6.8	130.2
341	Metal cans and shipping containers	-	5	5	0.5	8.4	0.4	0.8	6.4	33.8	52.0	82.6	0.3	0.4	18.0
3429	Hardware, n.e.c.	-	16	5	1.4	12.8	1.2	2.1	10.7	26.6	26.2	53.5	(D)	0.8	14.3
344	Fabricated structural metal products	-	115	35	3.0	43.5	2.2	4.2	27.8	84.5	98.0	180.1	4.8	2.3	40.4
3441	Fabricated structural metal	-	30	11	0.9	13.8	0.7	1.3	10.0	25.4	24.2	49.0	2.0	0.5	7.6
3442	Metal doors, sash, and trim	-	22	8	0.7	7.6	0.5	1.1	4.6	18.1	24.9	42.6	0.4	0.4	4.3
3443	Fabricated plate work (boiler shops)	-	16	8	0.7	10.6	0.6	1.1	7.4	20.4	22.8	42.1	1.1	0.3	5.9
3444	Sheet metal work	-	36	7	0.5	7.5	0.4	0.6	4.9	15.0	18.5	33.4	1.1	0.8	13.4
345	Screw machine products, bolts, etc.	E1	4	4	0.3	3.6	0.2	0.3	2.4	7.1	6.2	13.5	0.3	(NA)	(NA)
346	Metal forgings and stampings	-	16	6	0.4	6.2	0.3	0.6	4.3	11.4	11.8	23.1	0.8	0.3	5.0
347	Metal services, n.e.c.	-	35	10	0.7	7.9	0.6	1.1	5.8	14.6	5.0	19.6	0.8	0.4	4.7
3471	Plating and polishing	-	23	8	0.5	6.3	0.5	0.9	4.7	11.9	3.1	14.9	0.7	0.3	3.6
349	Miscellaneous fabricated metal products	-	56	16	1.2	15.9	0.9	1.7	10.9	32.4	45.8	77.6	1.5	0.9	16.7
3496	Miscellaneous fabricated wire products	-	15	4	0.3	3.2	0.2	0.4	2.2	8.8	11.8	20.5	0.4	(NA)	(NA)
35	Machinery, except electrical	-	326	89	11.4	175.3	7.1	12.8	93.0	396.3	282.6	659.0	34.3	7.8	147.7
352	Farm and garden machinery	-	14	5	0.3	4.4	0.3	0.5	3.4	8.5	14.5	23.1	(D)	(NA)	(NA)
354	Metalworking machinery	E1	25	3	0.3	4.3	0.3	0.5	3.2	9.5	4.1	12.7	0.6	0.3	5.0
355	Special industry machinery	-	62	27	2.3	37.3	1.5	2.8	20.6	67.4	64.8	129.4	2.7	1.6	37.1
3553	Woodworking machinery	-	34	15	0.9	15.1	0.6	1.2	9.4	31.0	33.6	62.5	1.4	0.7	17.3
3554	Paper industries machinery	-	8	4	0.3	4.2	0.2	0.3	2.2	7.0	4.0	11.1	0.1	(NA)	(NA)
356	General industrial machinery	-	39	11	2.2	33.6	1.5	2.2	18.0	66.0	45.2	111.0	1.9	1.8	27.7
3569	General industrial machinery, n.e.c.	-	10	2	0.3	4.6	0.2	0.3	2.0	6.4	6.2	12.6	0.2	(NA)	(NA)
358	Refrigeration and service machinery	E1	16	7	0.4	5.3	0.3	0.5	3.5	16.4	13.2	29.7	0.3	0.3	6.4
359	Miscellaneous machinery, except electrical	E2	123	18	1.2	16.5	0.9	1.7	11.3	29.1	12.2	40.9	1.5	0.9	14.1
36	Electric and electronic equipment	-	109	31	3.5	40.2	2.4	4.9	22.7	98.3	84.6	179.7	6.6	3.3	53.6
361	Electric distributing equipment	-	11	5	0.3	4.6	0.2	0.4	2.6	20.2	15.1	33.9	0.2	0.3	6.8
366	Communication equipment	-	14	2	0.6	6.7	0.4	0.8	3.1	20.0	13.3	31.2	0.3	1.5	23.0
367	Electronic components and accessories	E1	27	9	1.0	9.9	0.7	1.7	6.1	19.1	9.6	28.4	(D)	0.7	9.5
369	Miscellaneous electrical equipment and supplies	-	22	9	1.1	14.4	0.7	1.3	7.9	27.2	35.4	63.4	2.2	0.3	7.0
3691	Storage batteries	-	7	3	0.4	5.2	0.3	0.5	3.7	11.2	17.7	29.3	(D)	0.3	6.4
3699	Electrical equipment and supplies, n.e.c.	-	8	4	0.3	3.9	0.2	0.4	2.4	6.7	6.8	14.1	0.1	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Portland, Oreg.-Wash., SMSA—Con.													
37	Transportation equipment	-	120	33	7.8	112.7	6.4	10.6	84.6	193.2	285.4	511.2	14.4	6.1	139.7
371	Motor vehicles and equipment	-	54	21	3.4	44.7	2.8	4.5	32.5	88.3	177.7	261.7	4.6	3.1	88.3
379	Miscellaneous transportation equipment	-	19	3	0.3	2.3	0.2	0.4	1.6	3.6	6.4	9.7	0.2	(NA)	(NA)
384	Medical instruments and supplies	E1	27	8	0.4	5.1	0.3	0.6	3.3	12.3	6.2	17.7	0.5	(NA)	(NA)
3841	Surgical and medical instruments	E1	11	7	0.3	3.6	0.2	0.4	2.2	8.6	4.0	12.4	0.4	(NA)	(NA)
394	Toys and sporting goods	E1	24	4	0.3	2.8	0.2	0.4	2.0	7.5	7.2	14.7	0.5	0.4	4.6
--	Administrative and auxiliary	-	67	35	4.7	89.4	-	-	-	-	-	-	-	(NA)	(NA)
	Richland-Kennewick SMSA	-	**107**	31	**8.5**	**129.3**	5.5	**11.0**	69.5	**342.6**	**256.5**	**596.2**	63.9	5.9	**147.0**
20	Food and kindred products	-	12	9	2.6	25.6	2.3	4.6	22.0	88.3	192.2	281.5	(D)	1.7	28.4
2037	Frozen fruits and vegetables	-	4	4	1.8	16.7	1.7	3.2	15.0	58.9	56.3	115.7	(D)	(NA)	(NA)
27	Printing and publishing	-	15	2	0.4	4.6	0.4	0.7	3.9	9.7	2.7	12.2	(D)	(NA)	(NA)
28	Chemicals and allied products	-	7	4	3.7	72.6	1.7	3.8	29.4	200.7	25.5	223.9	(D)	3.2	104.2
34	Fabricated metal products	-	11	4	0.7	13.3	0.4	0.8	6.4	18.0	11.7	29.0	(D)	(NA)	(NA)
	Seattle-Everett SMSA	-	**2 717**	733	**131.9**	**2 111.6**	**78.6**	**143.0**	**1 017.8**	**4 161.0**	**4 940.0**	**9 015.4**	**213.4**	**108.6**	**2 234.7**
201	Meat products	-	16	5	0.8	11.9	0.7	1.3	9.9	25.8	85.9	111.7	(D)	0.9	23.7
203	Preserved fruits and vegetables	-	17	6	0.7	8.1	0.6	1.0	5.5	16.7	19.9	36.7	(D)	(NA)	(NA)
2037	Frozen fruits and vegetables	-	6	3	0.5	6.0	0.5	0.7	4.2	10.3	9.6	20.0	0.4	0.4	5.3
208	Beverages	-	18	10	1.1	17.1	0.6	1.1	8.4	48.3	93.1	139.0	10.5	0.9	22.6
2092	Fresh or frozen packaged fish	E2	22	13	0.9	9.6	0.8	1.5	7.2	31.4	133.0	164.2	1.5	0.7	14.5
2099	Food preparations, n.e.c.	-	19	4	0.4	4.7	0.2	0.4	2.1	17.7	22.4	39.4	0.9	0.3	7.0
239	Miscellaneous fabricated textile products	E1	64	16	1.1	8.9	0.9	1.7	6.3	16.0	21.2	36.9	0.9	0.8	8.9
242	Sawmills and planing mills	-	76	24	3.8	51.1	3.4	6.4	43.5	88.8	176.2	261.8	7.7	3.4	66.4
2421	Sawmills and planing mills, general	-	41	18	3.0	45.8	2.7	5.4	39.0	79.3	165.3	241.4	7.1	3.0	62.7
243	Millwork, plywood, and structural members	-	79	26	2.9	38.8	2.5	4.6	30.5	69.1	101.2	169.2	2.6	2.7	47.7
2431	Millwork	-	37	16	1.7	22.5	1.5	2.7	17.6	41.0	57.9	98.6	1.1	1.4	21.8
2434	Wood kitchen cabinets	E1	28	5	0.5	5.7	0.4	0.7	4.3	8.0	9.1	16.7	0.2	(NA)	(NA)
244	Wood containers	-	8	3	0.3	3.0	0.2	0.4	2.2	6.5	6.9	13.3	(D)	(NA)	(NA)
245	Wood buildings and mobile homes	E3	10	6	0.4	5.0	0.3	0.6	2.9	9.6	17.8	27.4	0.8	(NA)	(NA)
249	Miscellaneous wood products	-	32	6	0.4	4.9	0.3	0.6	3.5	8.3	12.3	20.4	(D)	0.5	6.0
251	Household furniture	E2	40	12	0.7	7.5	0.6	1.1	5.2	17.6	16.2	33.5	(D)	0.7	7.0
254	Partitions and fixtures	-	19	6	0.3	3.5	0.2	0.4	2.5	6.6	5.1	11.7	(D)	(NA)	(NA)
26	Paper and allied products	-	37	20	3.5	62.6	2.6	5.1	44.9	154.8	228.3	384.1	19.7	3.5	98.8
264	Miscellaneous converted paper products	-	22	9	1.5	23.3	1.2	2.3	17.2	69.7	101.8	171.8	1.9	(NA)	(NA)
2643	Bags, except textile bags	-	5	4	0.3	4.0	0.3	0.4	2.8	7.1	9.6	16.7	(D)	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	6	4	0.4	5.8	0.2	0.4	3.5	11.2	21.1	32.3	(D)	0.3	6.6
2752	Commercial printing, lithographic	E1	98	17	1.3	18.8	1.0	1.9	13.2	35.6	20.6	56.2	3.5	**1.1**	20.2
28	Chemicals and allied products	E1	65	17	1.0	15.2	0.5	1.0	6.2	55.2	61.0	115.3	6.4	1.0	27.7
2851	Paints and allied products	-	16	8	0.4	6.2	0.2	0.4	1.9	15.9	20.0	35.5	0.6	0.4	9.5
32	Stone, clay, and glass products	-	109	32	3.2	44.3	2.5	4.7	30.9	120.3	101.9	223.6	11.6	2.9	66.8
327	Concrete, gypsum, and plaster products	E1	56	21	1.3	20.5	0.9	1.7	13.2	47.2	40.4	87.2	4.4	1.6	32.3
3272	Concrete products, n.e.c.	E3	33	8	0.5	6.8	0.4	0.7	4.7	12.4	8.7	20.7	2.0	0.9	18.0
3273	Ready-mixed concrete	E1	19	9	0.7	10.7	0.5	0.7	6.5	25.4	20.1	45.4	2.2	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products	E1	16	3	0.6	6.3	0.5	0.8	4.3	18.5	11.1	29.8	(D)	0.3	6.0
3325	Steel foundries, n.e.c.	-	8	5	0.4	6.0	0.4	0.7	5.0	11.1	7.0	17.9	0.8	(NA)	(NA)
34	Fabricated metal products	-	273	81	6.8	97.6	5.3	10.1	66.9	192.7	173.7	364.4	8.7	5.5	103.6
344	Fabricated structural metal products	E1	125	44	3.8	60.1	2.9	5.6	39.8	108.0	98.9	207.0	5.0	3.2	56.6
3441	Fabricated structural metal	-	29	20	1.6	28.6	1.2	2.3	19.7	43.9	38.7	84.1	2.0	1.4	24.4
3442	Metal doors, sash, and trim	-	25	7	0.8	10.3	0.6	1.2	6.1	21.8	23.6	44.8	(D)	0.6	11.5
3443	Fabricated plate work (boiler shops)	E3	18	7	0.6	10.0	0.5	1.0	6.3	18.5	14.7	33.1	(D)	(NA)	(NA)
3444	Sheet metal work	E1	32	8	0.6	9.1	0.5	1.0	6.6	20.9	18.6	39.1	1.0	0.6	10.4

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Seattle-Everett SMSA—Con.													
34	Fabricated metal products—Con.													
346	Metal forgings and stampings	E3	18	6	0.5	2.4	0.3	0.5	1.6	3.0	4.3	7.3	(D)	(NA)	(NA)
3471	Plating and polishing	–	28	5	0.4	5.0	0.3	0.6	3.4	9.9	3.2	13.1	(D)	0.3	5.9
349	Miscellaneous fabricated metal products	E1	53	14	0.9	11.9	0.7	1.3	8.8	24.3	23.1	47.2	1.8	0.5	9.8
3553	Woodworking machinery	–	8	3	0.5	6.7	0.3	0.4	3.5	14.8	8.9	23.9	0.2	1.3	20.9
366	Communication equipment	–	38	16	2.4	33.6	1.0	1.9	9.8	58.9	37.3	92.4	4.6	(NA)	(NA)
367	Electronic components and accessories	E4	30	3	0.3	3.4	0.2	0.4	2.0	6.0	3.2	9.2	0.2	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	–	23	5	0.5	8.0	0.3	0.5	3.4	20.1	10.6	30.6	0.3	(NA)	(NA)
391	Jewelry, silverware, and plated ware	E1	22	6	0.3	3.5	0.2	0.4	2.2	7.7	6.1	12.9	(D)	(NA)	(NA)
3911	Jewelry, precious metal	E1	18	6	0.3	3.4	0.2	0.4	2.2	7.4	5.8	12.2	(D)	(NA)	(NA)
394	Toys and sporting goods	–	40	8	1.3	14.1	1.1	2.2	9.6	32.7	21.9	52.2	1.1	0.8	15.5
3949	Sporting and athletic goods, n.e.c.	–	31	7	1.3	13.5	1.0	2.1	9.3	31.4	20.9	49.8	1.0	(NA)	(NA)
	Spokane SMSA	–	**447**	**132**	**16.0**	**226.6**	**11.6**	**21.9**	**151.2**	**551.4**	**744.0**	**1 281.0**	**50.0**	**12.2**	**237.4**
242	Sawmills and planing mills	–	13	7	0.5	5.6	0.5	0.9	4.7	10.2	17.6	28.2	(D)	0.3	6.1
243	Millwork, plywood, and structural members	–	29	11	0.8	7.7	0.7	1.2	6.0	15.0	28.0	42.9	0.4	(NA)	(NA)
2431	Millwork	–	14	3	0.3	3.1	0.3	0.6	2.5	5.3	11.4	16.7	0.2	(NA)	(NA)
26	Paper and allied products	–	6	5	0.3	3.5	0.2	0.3	2.1	9.4	9.1	18.4	(D)	(NA)	(NA)
28	Chemicals and allied products	E1	14	3	0.3	3.7	0.2	0.3	1.5	9.3	10.0	18.8	0.8	(NA)	(NA)
32	Stone, clay, and glass products	E1	23	9	0.7	9.6	0.5	0.9	5.9	21.7	20.0	41.4	(D)	0.5	10.2
34	Fabricated metal products	E1	46	14	1.1	14.1	0.7	1.3	8.1	39.6	43.7	83.4	2.0	0.6	11.4
3444	Sheet metal work	–	11	5	0.3	4.6	0.2	0.4	2.4	11.5	24.7	35.5	0.9	(NA)	(NA)
	Tacoma SMSA	–	**615**	**172**	**21.3**	**319.8**	**14.5**	**27.5**	**190.8**	**758.3**	**947.4**	**1 701.2**	**54.1**	**20.4**	**362.5**
209	Miscellaneous foods and kindred products	–	17	6	0.4	3.5	0.3	0.5	2.6	9.8	16.5	26.2	0.8	0.3	5.1
2411	Logging camps and logging contractors	E1	83	6	0.8	11.6	0.7	1.3	9.9	33.4	34.6	67.9	2.7	0.9	21.9
242	Sawmills and planing mills	–	28	10	1.4	20.7	1.2	2.4	17.0	44.6	60.0	104.8	11.7	1.0	18.7
243	Millwork, plywood, and structural members	–	44	17	1.8	23.0	1.5	2.9	18.2	42.0	63.1	103.2	1.2	2.2	33.5
2431	Millwork	E1	18	6	0.3	3.4	0.3	0.5	2.6	6.8	11.6	18.4	0.2	0.8	10.1
2434	Wood kitchen cabinets	–	13	5	0.3	4.4	0.2	0.5	3.3	6.6	5.3	11.8	0.2	(NA)	(NA)
249	Miscellaneous wood products	–	14	6	0.4	4.8	0.3	0.6	3.4	8.5	14.1	22.5	0.4	(NA)	(NA)
26	Paper and allied products	–	12	11	1.4	22.8	1.1	2.2	19.3	55.1	93.5	147.0	(D)	1.6	34.2
32	Stone, clay, and glass products	E1	24	9	0.7	10.0	0.5	1.0	7.0	18.2	23.8	42.6	1.4	0.7	9.6
34	Fabricated metal products	–	44	6	0.6	9.3	0.5	0.9	6.3	19.4	20.0	39.4	(D)	(NA)	(NA)
	Yakima SMSA	–	**234**	**85**	**8.0**	**101.5**	**6.5**	**12.9**	**76.0**	**245.9**	**453.4**	**690.1**	**19.0**	**6.6**	**142.6**
203	Preserved fruits and vegetables	–	18	12	1.4	15.6	1.3	2.6	13.8	42.6	77.7	118.7	3.0	1.3	27.5
2033	Canned fruits and vegetables	–	13	10	1.2	14.1	1.1	2.3	12.5	36.8	69.5	104.8	(D)	0.9	23.7
209	Miscellaneous foods and kindred products	E1	7	2	0.3	2.7	0.2	0.4	1.6	8.9	9.7	18.5	0.3	(NA)	(NA)
2411	Logging camps and logging contractors	–	12	5	0.3	5.4	0.3	0.6	4.9	12.0	33.0	44.8	2.7	0.3	9.9
242	Sawmills and planing mills	–	9	5	0.7	11.4	0.7	1.4	10.1	22.8	42.7	64.0	(D)	0.8	20.4
26	Paper and allied products	–	6	4	0.4	6.5	0.3	0.7	4.7	17.3	32.3	49.3	(D)	0.3	6.2

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Adams County	-	**12**	**3**	**0.9**	**8.8**	**0.7**	**1.5**	**6.7**	**19.7**	**43.6**	**63.3**	**0.1**	**(D)**	**(D)**
	Benton County	-	**66**	**21**	**6.5**	**108.6**	**3.9**	**7.8**	**53.8**	**289.0**	**108.4**	**394.0**	**(D)**	**4.5**	**127.5**
20	Food and kindred products	-	6	5	1.1	11.5	1.0	2.0	9.9	46.4	52.7	99.7	(D)	0.7	13.2
28	Chemicals and allied products	-	7	4	3.7	72.6	1.7	3.8	29.4	200.7	25.5	223.9	(D)	(NA)	(NA)
	Chelan County	-	**82**	**24**	**2.9**	**41.7**	**2.4**	**4.9**	**32.2**	**196.7**	**163.0**	**368.2**	**10.4**	**1.5**	**27.0**
20	Food and kindred products	-	9	7	0.5	5.2	0.4	0.7	3.9	15.7	28.3	41.2	(D)	0.5	7.2
24	Lumber and wood products	E1	26	4	0.6	6.9	0.5	1.1	6.0	8.8	16.0	25.0	0.9	0.5	8.8
	Clallam County	-	**251**	**40**	**4.5**	**60.9**	**3.8**	**6.5**	**47.9**	**157.6**	**188.4**	**344.3**	**34.4**	**3.5**	**66.9**
24	Lumber and wood products	E1	209	33	3.2	40.5	2.7	4.6	32.2	90.5	125.5	211.1	(D)	2.4	39.2
2411	Logging camps and logging contractors	E1	131	16	1.5	19.4	1.2	2.2	15.8	36.9	61.8	96.5	7.5	(NA)	(NA)
2429	Special product sawmills, n.e.c.	E1	62	14	0.9	8.7	0.8	1.1	6.7	17.6	21.7	38.8	1.2	(NA)	(NA)
	Clark County	-	**258**	**69**	**12.2**	**179.0**	**9.5**	**18.3**	**129.5**	**439.2**	**717.2**	**1 156.8**	**33.1**	**11.3**	**245.9**
24	Lumber and wood products	-	82	20	2.3	30.4	2.0	3.8	25.0	67.3	83.7	150.4	3.1	1.9	33.2
242	Sawmills and planing mills	-	19	5	0.5	5.5	0.4	0.7	4.2	22.6	13.0	35.3	1.1	0.6	8.8
243	Millwork, plywood, and structural members	-	22	7	0.8	12.6	0.7	1.4	10.5	25.0	38.7	64.2	1.0	0.9	19.8
26	Paper and allied products	-	10	7	3.2	59.3	2.6	5.4	46.0	125.8	252.8	380.6	(D)	(NA)	(NA)
34	Fabricated metal products	-	26	6	0.5	7.7	0.4	0.9	6.1	20.3	23.4	42.3	0.8	(NA)	(NA)
35	Machinery, except electrical	-	29	4	0.9	14.5	0.6	1.2	8.8	18.7	22.2	40.2	0.6	0.7	16.6
	Cowlitz County	-	**166**	**56**	**12.4**	**212.5**	**10.0**	**19.3**	**163.8**	**490.4**	**799.0**	**1 287.2**	**146.8**	**11.8**	**293.4**
24	Lumber and wood products	-	99	32	6.2	99.8	5.6	10.7	86.6	179.7	390.4	569.1	(D)	5.8	122.8
242	Sawmills and planing mills	-	20	13	2.3	38.9	2.1	4.0	34.4	45.2	115.9	161.5	(D)	3.2	83.6
2421	Sawmills and planing mills, general	-	11	9	2.1	37.2	1.9	3.7	33.0	42.4	113.6	156.6	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members	-	9	5	1.2	19.0	1.2	2.3	16.2	29.7	45.4	78.1	(D)	1.6	25.7
	Franklin County	-	**41**	**10**	**2.0**	**20.7**	**1.6**	**3.2**	**15.7**	**53.6**	**148.1**	**202.2**	**(D)**	**1.4**	**19.5**
20	Food and kindred products	-	6	4	1.4	14.1	1.3	2.6	12.2	41.9	139.5	181.9	(D)	0.9	15.2
	Grant County	-	**39**	**11**	**2.1**	**23.0**	**1.8**	**3.5**	**17.6**	**82.8**	**109.2**	**178.6**	**3.5**	**2.5**	**78.9**
20	Food and kindred products	-	10	8	1.9	20.5	1.7	3.2	16.1	76.9	105.1	168.6	(D)	1.5	29.4
	Grays Harbor County	-	**324**	**73**	**9.1**	**130.2**	**7.7**	**13.7**	**105.2**	**366.1**	**505.4**	**859.4**	**51.0**	**7.8**	**157.6**
24	Lumber and wood products	-	262	55	6.4	87.9	5.6	9.9	73.7	257.5	361.9	611.8	(D)	5.2	101.2
2411	Logging camps and logging contractors	-	122	11	2.9	43.1	2.5	4.3	35.5	129.6	249.6	378.0	12.6	(NA)	(NA)
242	Sawmills and planing mills	-	121	33	2.1	24.6	1.8	3.3	20.2	91.0	60.5	145.8	(D)	1.5	28.4
2421	Sawmills and planing mills, general	-	14	7	0.7	10.1	0.6	1.1	8.7	61.1	24.1	79.9	5.9	(NA)	(NA)
243	Millwork, plywood, and structural members	-	9	6	1.1	16.8	1.0	2.0	15.2	30.4	46.7	76.9	0.7	1.1	21.2
26	Paper and allied products	-	4	3	1.3	24.4	1.1	2.1	19.7	59.1	93.3	150.3	(D)	1.3	32.8
	Jefferson County	-	**56**	**3**	**0.8**	**12.9**	**0.7**	**1.4**	**11.6**	**32.7**	**33.4**	**66.3**	**(D)**	**1.0**	**21.9**
	King County	-	**2 212**	**619**	**110.5**	**1 786.9**	**63.4**	**115.5**	**819.5**	**3 313.6**	**3 796.9**	**6 951.7**	**169.7**	**89.4**	**1 840.9**
20	Food and kindred products	-	164	71	8.5	121.2	5.9	11.3	75.1	309.0	700.3	1 002.8	29.2	7.5	173.7
202	Dairy products	-	18	12	1.1	21.7	0.6	1.2	11.3	48.4	191.8	239.6	2.7	(NA)	(NA)
204	Grain mill products	-	12	5	0.5	8.4	0.4	0.8	6.1	21.6	87.4	107.2	1.2	(NA)	(NA)
209	Miscellaneous foods and kindred products	E1	59	24	2.4	26.3	2.0	3.8	18.3	76.0	191.6	266.1	4.9	(NA)	(NA)
24	Lumber and wood products	-	192	46	5.1	67.8	4.3	8.1	52.8	125.6	317.6	441.6	15.3	4.6	105.4
242	Sawmills and planing mills	-	25	7	1.4	16.6	1.3	2.3	13.9	27.0	53.3	79.4	1.8	0.9	15.4
2431	Millwork	E1	22	12	0.8	10.2	0.6	1.1	6.7	18.1	29.8	47.5	0.5	(NA)	(NA)
25	Furniture and fixtures	E1	63	23	1.3	12.6	1.0	2.0	8.7	29.5	24.7	53.9	0.8	0.9	11.2
27	Printing and publishing	E1	327	43	5.6	81.3	3.2	5.2	45.5	145.5	67.6	212.8	8.6	5.0	89.3
2711	Newspapers	-	41	9	2.9	45.7	1.3	1.7	21.6	77.2	32.8	110.0	3.6	(NA)	(NA)
275	Commercial printing	E1	199	20	1.8	24.5	1.4	2.5	17.2	46.2	26.0	72.1	4.1	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	78	20	1.7	19.9	1.2	2.4	12.0	48.9	36.6	83.9	2.0	0.9	13.6
32	Stone, clay, and glass products	-	85	28	2.8	39.0	2.1	4.1	27.4	109.8	95.3	206.5	(D)	(NA)	(NA)
327	Concrete, gypsum, and plaster products	E1	40	19	1.2	18.6	0.8	1.5	12.1	44.1	37.5	81.0	(D)	(NA)	(NA)
3273	Ready-mixed concrete	E1	14	9	0.7	10.3	0.4	0.7	6.2	24.8	18.8	43.6	2.1	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	E3	14	6	0.5	8.4	0.4	0.8	5.3	15.0	11.6	26.4	0.7	(NA)	(NA)
3444	Sheet metal work	E1	24	6	0.5	7.5	0.4	0.8	5.5	12.6	13.8	26.0	0.8	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	King County—Con.													
35	Machinery, except electrical	E1	292	72	7.0	103.3	4.6	9.0	61.0	203.3	144.2	348.2	9.0	5.0	91.5
355	Special industry machinery	-	33	8	0.9	12.9	0.5	1.0	7.0	27.0	17.5	45.2	1.3	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	146	26	1.7	23.3	1.3	2.6	16.1	41.6	19.5	60.2	2.5	1.4	19.3
36	Electric and electronic equipment	-	137	40	4.2	57.2	2.2	4.3	22.7	107.1	73.2	176.5	5.9	(NA)	(NA)
3662	Radio and TV communication equipment	-	28	11	1.7	25.8	0.6	1.2	6.7	44.1	22.1	62.7	(D)	(NA)	(NA)
37	Transportation equipment	-	122	40	49.2	916.6	23.0	39.6	336.3	1 650.0	1 790.1	3 302.5	(D)	40.6	949.5
39	Miscellaneous manufacturing industries	E1	129	21	2.2	23.4	1.7	3.3	15.8	51.9	32.2	80.8	1.6	(NA)	(NA)
--	Administrative and auxiliary	-	61	28	4.4	93.2	-	-	-	-	-	-	-	(NA)	(NA)
	Kitsap County	-	73	11	1.3	19.6	0.6	1.4	6.2	35.3	25.0	59.3	1.1	0.7	15.1
	Kittitas County	-	54	6	0.8	10.7	0.7	1.3	9.0	23.2	90.5	113.5	1.3	2.0	47.2
20	Food and kindred products	-	8	3	0.5	7.2	0.5	0.9	6.3	15.0	82.4	97.3	(D)	1.7	42.8
	Klickitat County	-	56	11	1.5	23.4	1.3	2.4	16.7	56.0	94.5	152.6	4.0	1.6	38.9
242	Sawmills and planing mills	-	9	4	0.6	9.4	0.6	1.1	8.1	22.5	28.2	49.8	2.1	0.7	13.8
2421	Sawmills and planing mills, general	-	9	4	0.6	9.4	0.6	1.1	8.1	22.5	28.2	49.8	2.1	(NA)	(NA)
	Lewis County	-	195	52	4.6	66.9	3.9	7.7	51.0	144.6	308.6	454.9	23.9	4.8	86.9
24	Lumber and wood products	-	140	36	3.6	51.2	3.1	6.2	43.0	117.7	245.9	366.4	21.4	3.7	71.3
2411	Logging camps and logging contractors	-	90	12	1.5	25.1	1.3	2.7	21.8	63.9	142.1	208.4	14.4	(NA)	(NA)
242	Sawmills and planing mills	-	36	15	1.2	15.5	1.0	2.0	13.5	31.2	57.0	88.8	6.0	1.2	30.2
	Mason County	-	97	13	2.3	34.9	1.7	3.1	23.5	59.4	91.2	151.0	7.2	2.1	32.9
24	Lumber and wood products	-	71	6	1.6	24.9	1.4	2.6	20.5	51.1	81.5	133.3	6.7	(NA)	(NA)
	Okanogan County	-	54	9	1.6	27.0	1.4	3.7	22.9	40.9	50.0	88.2	7.2	1.7	31.2
24	Lumber and wood products	-	31	7	1.5	25.3	1 3	3.2	21.8	37.4	46.3	81.1	7.0	(NA)	(NA)
	Pacific County	-	66	15	1.2	14.2	1.1	1.6	12.0	24.6	39.1	63.7	1.3	1.2	22.1
24	Lumber and wood products	-	44	8	0.8	11.0	0.7	1.2	9.6	19.5	30.9	50.5	1.0	0.8	18.5
242	Sawmills and planing mills	-	18	7	0.7	9.5	0.6	1.1	8.3	16.2	29.4	45.7	0.8	(NA)	(NA)
	Pend Oreille County	-	39	7	0.5	7.0	0.5	0.9	6.2	16.2	19.6	36.0	1.6	0.3	8.0
	Pierce County (Coextensive with Tacoma, Wash., SMSA; see table 6.)														
	Skagit County	-	151	34	4.1	56.1	3.2	5.8	40.5	114.0	668.1	981.3	11.7	4.4	98.6
24	Lumber and wood products	E1	79	13	1.4	17.4	1.2	2.1	14.2	44.3	43.8	88.2	2.8	1.4	23.3
242	Sawmills and planing mills	-	37	7	0.6	7.8	0.6	1.0	6.6	17.2	20.7	37.6	1.7	0.6	7.0
	Skamania County	-	25	6	0.9	11.2	0.6	1.4	9.7	17.1	24.8	42.5	2.5	0.9	12.7
24	Lumber and wood products	E1	20	6	0.8	11.1	0.8	1.4	9.6	16.9	24.7	42.1	2.5	0.9	12.6
	Snohomish County	-	505	114	21.4	324.7	15.2	27.4	198.2	847.4	1 143.1	2 063.7	43.8	19.2	393.9
242	Sawmills and planing mills	-	51	17	2.4	34.6	2.1	4.2	29.7	61.8	122.9	182.4	5.9	2.5	51.0
2431	Millwork	-	15	4	0.9	12.3	0.9	1.5	10.9	22.9	28.1	51.2	0.6	(NA)	(NA)
3728	Aircraft equipment, n.e.c.	-	7	4	0.8	12.8	0.5	1.1	6.2	19.5	7.7	25.6	1.1	(NA)	(NA)
	Spokane County (Coextensive with Spokane, Wash., SMSA; see table 6.)														
	Stevens County	-	94	16	1.7	25.9	1.5	3.0	21.0	46.0	86.6	130.1	14.8	1.0	18.4
24	Lumber and wood products	-	75	11	1.2	16.0	1.0	2.1	13.7	38.6	62.3	100.4	(D)	0.9	17.7
242	Sawmills and planing mills	-	18	8	0.7	8.6	0.6	1.2	7.6	19.8	24.3	43.1	(D)	(NA)	(NA)
	Thurston County	-	125	29	3.4	46.0	2.6	5.0	33.5	132.4	214.8	346.0	11.3	2.5	64.8
243	Millwork, plywood, and structural members	-	12	5	0.6	6.6	0.5	1.1	5.6	20.2	20.6	40.4	(D)	(NA)	(NA)
2436	Softwood veneer and plywood	-	3	3	0.5	5.8	0.5	1.0	5.0	17.0	16.6	33.2	(D)	(NA)	(NA)
	Walla Walla County	-	62	16	2.2	27.9	1.8	3.1	19.2	77.8	90.2	165.5	(D)	1.9	47.6
20	Food and kindred products	-	11	5	0.8	9.0	0.7	1.3	6.5	29.4	24.5	53.9	0.3	1.0	22.8
203	Preserved fruits and vegetables	-	4	3	0.7	7.8	0.6	1.2	6.0	25.5	19.9	45.5	(D)	0.9	21.5
	Whatcom County	-	183	41	6.4	103.5	4.9	9.5	71.9	280.5	958.9	1 249.2	53.7	4.9	135.7
20	Food and kindred products	-	29	12	0.8	8.4	0.7	1.3	7.0	50.1	83.6	133.3	0.8	0.6	9.6
24	Lumber and wood products	-	43	6	0.7	9.9	0.6	1.3	8.4	18.4	31.7	49.8	1.6	0.7	11.7
	Yakima County (Coextensive with Yakima, Wash., SMSA; see table 6.)														

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Aberdeen	-	81	18	1.7	25.1	1.4	2.7	20.0	98.6	65.1	158.6	7.6	1.5	34.2
242	Sawmills and planing mills	-	19	7	0.6	9.5	0.6	1.1	8.1	61.1	21.8	77.8	5.7	(NA)	(NA)
2421	Sawmills and planing mills, general	-	8	4	0.5	7.9	0.4	0.8	6.7	57.9	18.1	70.8	(D)	(NA)	(NA)
	Auburn	-	66	11	0.9	10.3	0.7	1.2	6.7	44.5	26.1	54.5	1.8	0.8	11.6
	Bellevue	-	127	27	3.0	51.0	1.5	2.8	18.4	59.9	117.6	176.1	10.4	1.8	40.1
20	Food and kindred products	-	11	6	0.7	9.4	0.4	0.9	5.4	25.0	76.8	100.7	7.2	(NA)	(NA)
--	Administrative and auxiliary	-	8	5	0.8	20.7	-	-	-	-	-	-	-	(NA)	(NA)
	Bellingham	-	87	19	2.8	43.3	2.1	4.2	32.0	156.7	146.2	301.2	(D)	(D)	(D)
	Centralia	-	40	11	1.1	11.7	0.7	1.4	6.9	22.2	23.2	45.1	1.1	0.8	8.6
	Chehalis	-	65	20	2.0	30.5	1.6	3.2	23.9	67.4	202.9	272.9	12.4	1.8	34.1
24	Lumber and wood products	-	34	11	1.3	21.5	1.1	2.4	18.6	52.0	147.4	202.9	10.4	1.4	25.9
	Colville	-	46	6	0.5	6.8	0.5	0.9	5.7	13.4	16.2	28.9	(D)	(NA)	(NA)
	Everett	-	118	42	7.7	123.8	5.8	11.1	89.1	252.5	373.0	624.9	27.2	13.6	301.3
24	Lumber and wood products	-	25	8	2.4	37.2	2.2	4.2	32.5	67.7	125.9	193.5	4.0	3.1	72.5
34	Fabricated metal products	-	8	4	0.5	6.4	0.4	0.8	4.6	13.2	15.3	27.8	0.5	(NA)	(NA)
35	Machinery, except electrical	-	12	3	0.8	14.6	0.5	0.9	7.3	20.4	14.5	33.9	1.0	(NA)	(NA)
	Hoquiam	-	88	24	3.7	55.7	3.1	5.4	44.9	140.6	230.2	364.3	27.7	3.2	51.6
24	Lumber and wood products	-	74	18	2.2	31.5	2.0	3.3	26.1	92.4	146.6	235.7	(D)	1.6	19.1
	Kennewick	-	30	4	0.8	10.7	0.7	1.3	8.3	38.2	35.0	71.5	3.2	(NA)	(NA)
	Kent	-	125	48	4.5	64.0	2.9	5.6	32.1	128.9	155.4	279.9	5.0	2.6	45.9
34	Fabricated metal products	-	15	9	1.0	14.4	0.8	1.6	11.1	38.9	41.1	78.6	0.7	0.5	10.7
35	Machinery, except electrical	-	25	7	0.8	10.8	0.4	0.9	3.8	22.3	10.7	92.1	0.9	0.7	12.3
	Kirkland	-	40	12	1.1	15.2	0.8	1.5	7.8	31.2	38.6	68.9	2.2	0.7	12.0
	Lynnwood	-	45	7	0.6	7.4	0.4	0.9	4.8	15.5	11.7	26.8	1.1	(NA)	(NA)
	Marysville	-	36	6	1.1	13.3	0.9	1.7	9.8	23.5	34.1	56.7	1.6	0.7	11.6
	Monroe	-	30	4	0.6	2.7	0.4	0.6	1.9	12.3	27.7	39.9	0.6	(NA)	(NA)
	Olympia	-	89	23	2.8	39.6	2.2	4.2	28.7	121.9	195.5	316.4	11.0	1.9	55.8
	Othello	-	7	3	0.8	8.6	0.7	1.5	6.6	19.3	43.3	62.5	(D)	(D)	(D)
	Port Angeles	-	86	15	2.0	28.0	1.7	3.0	21.8	68.5	97.1	163.9	21.1	2.1	44.4
2411	Logging camps and logging contractors	E1	46	6	0.5	7.0	0.5	0.8	5.8	12.8	26.5	37.9	2.5	(NA)	(NA)
	Puyallup	-	30	9	0.6	5.6	0.5	0.9	4.3	11.2	13.5	24.3	1.0	(NA)	(NA)
	Raymond	-	17	6	0.6	9.2	0.5	0.9	7.9	15.3	27.5	43.0	0.7	(D)	(D)
	Richland	-	22	10	4.8	87.4	2.5	5.1	37.6	218.1	37.0	254.3	7.2	(D)	(D)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Seattle	-	**1 270**	**372**	**61.2**	**985.8**	**34.5**	**64.5**	**442.4**	**1 804.7**	**1 748.0**	**3 637.4**	**83.2**	**54.9**	**1 097.7**
20	Food and kindred products	-	119	52	7.0	100.4	4.9	9.4	62.7	251.3	527.5	775.6	17.9	6.7	145.3
201	Meat products	-	8	3	0.7	9.9	0.6	1.1	8.4	20.3	65.6	86.0	1.2	(NA)	(NA)
202	Dairy products	-	9	7	0.8	15.4	0.4	0.7	7.4	29.7	104.6	134.1	1.3	(NA)	(NA)
208	Beverages	-	11	5	0.6	10.9	0.4	0.7	5.7	32.7	56.3	88.8	3.8	(NA)	(NA)
23	Apparel and other textile products	-	89	37	3.3	27.2	2.8	5.0	19.4	47.3	59.8	106.7	3.2	3.4	41.0
232	Men's and boys' furnishings	-	16	13	1.6	12.9	1.3	2.4	9.2	20.3	28.1	48.3	2.1	(NA)	(NA)
239	Miscellaneous fabricated textile products	E1	47	15	1.0	8.3	0.9	1.5	5.8	14.9	19.4	33.9	0.9	(NA)	(NA)
24	Lumber and wood products	-	45	11	1.2	15.8	1.0	1.9	12.1	29.1	50.6	79.7	1.2	1.3	23.0
25	Furniture and fixtures	E1	42	14	0.7	6.4	0.6	1.1	4.7	18.2	15.6	33.5	(D)	(NA)	(NA)
26	Paper and allied products	-	20	8	0.8	11.0	0.5	1.0	6.8	22.1	28.5	50.4	1.1	(NA)	(NA)
264	Miscellaneous converted paper products	-	14	3	0.5	6.3	0.4	0.7	4.2	13.5	16.9	30.3	0.4	(NA)	(NA)
27	Printing and publishing	E1	232	35	4.5	70.3	2.6	4.1	39.4	123.0	57.9	180.7	7.5	4.2	76.8
2711	Newspapers	-	27	5	2.4	40.8	1.1	1.4	19.9	67.8	29.0	96.8	3.2	(NA)	(NA)
275	Commercial printing	E1	140	18	1.4	20.6	1.0	1.9	14.3	38.1	21.7	59.7	3.8	(NA)	(NA)
2752	Commercial printing, lithographic	-	66	15	1.0	15.9	0.8	1.4	11.1	29.4	17.6	46.9	3.3	(NA)	(NA)
28	Chemicals and allied products	E1	42	8	0.5	8.2	0.2	0.5	2.8	24.3	26.3	50.1	4.2	0.6	16.3
32	Stone, clay, and glass products	-	36	10	1.3	20.2	1.1	2.1	15.1	62.1	63.7	127.7	5.8	1.4	35.6
33	Primary metal industries	-	30	12	2.5	38.2	2.0	3.5	27.4	84.6	79.0	161.1	2.4	(NA)	(NA)
34	Fabricated metal products	E1	137	46	3.2	52.8	2.5	4.8	34.5	92.0	73.0	165.9	5.2	3.8	70.4
344	Fabricated structural metal products	E1	57	25	1.8	33.3	1.3	2.6	20.8	51.9	40.3	93.4	2.5	(NA)	(NA)
3441	Fabricated structural metal	-	16	12	0.8	17.2	0.6	1.2	11.0	25.3	17.7	44.8	1.3	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	30	9	0.7	9.5	0.5	1.0	7.2	19.9	20.1	39.9	1.5	(NA)	(NA)
35	Machinery, except electrical	E1	154	44	4.8	71.8	3.3	6.3	45.3	141.7	99.6	243.1	6.3	3.8	68.2
353	Construction and related machinery	-	23	12	1.6	26.2	0.9	1.8	14.3	57.3	48.6	106.4	2.4	(NA)	(NA)
3531	Construction machinery	-	9	6	1.0	15.6	0.6	1.3	9.9	35.2	23.9	54.5	2.2	(NA)	(NA)
354	Metalworking machinery	E2	14	4	0.5	7.9	0.4	0.7	5.8	11.4	5.1	16.9	0.1	(NA)	(NA)
355	Special industry machinery	-	26	7	0.7	9.8	0.5	0.8	5.7	21.2	14.4	35.9	1.2	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	63	14	1.0	14.3	0.8	1.7	10.1	24.2	10.2	34.2	1.6	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E2	63	14	1.0	14.3	0.8	1.7	10.1	24.2	10.2	34.2	1.6	(NA)	(NA)
36	Electric and electronic equipment	-	61	20	2.2	31.6	1.1	2.1	11.9	53.2	36.5	87.4	2.7	1.4	26.0
366	Communication equipment	-	14	5	1.2	19.9	0.4	0.8	4.9	32.2	16.1	45.7	2.2	(NA)	(NA)
373	Ship and boat building and repairing	-	36	12	4.9	82.9	4.3	8.8	66.1	188.6	78.0	266.4	4.2	(NA)	(NA)
38	Instruments and related products	-	28	8	1.5	19.4	0.9	2.0	9.9	48.1	18.9	66.1	(D)	0.7	11.6
39	Miscellaneous manufacturing industries	E2	73	16	1.3	12.5	0.9	1.7	8.3	26.8	17.1	42.8	0.8	(NA)	(NA)
399	Miscellaneous manufactures	E4	36	8	0.5	5.6	0.3	0.6	3.6	11.0	4.3	15.2	0.3	(NA)	(NA)
--	Administrative and auxiliary	-	39	17	3.0	59.1	-	-	-	-	-	-	-	(NA)	(NA)
	Sedro-Woolley	-	**35**	**5**	**0.9**	**14.3**	**0.7**	**1.3**	**10.5**	**24.9**	**29.7**	**54.6**	**2.8**	**1.1**	**16.0**
	Shelton	-	**84**	**13**	**2.2**	**34.7**	**1.7**	**3.0**	**23.3**	**58.8**	**90.5**	**149.7**	**7.2**	**(D)**	**(D)**
	Sumner	-	**24**	**9**	**0.6**	**6.9**	**0.4**	**0.8**	**5.2**	**13.6**	**19.9**	**33.2**	**(D)**	**0.7**	**10.2**
	Tacoma	-	**341**	**121**	**14.9**	**219.0**	**11.0**	**21.1**	**149.6**	**505.8**	**696.0**	**1 198.5**	**36.2**	**16.4**	**300.7**
242	Sawmills and planing mills	-	17	8	1.2	19.8	1.1	2.2	16.3	42.8	57.4	100.5	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members	-	24	10	1.4	18.7	1.2	2.3	15.1	32.6	52.4	83.3	0.6	(NA)	(NA)
--	Administrative and auxiliary	-	10	6	0.5	10.3	-	-	-	-	-	-	-	(NA)	(NA)
	Toppenish	-	**9**	**4**	**0.8**	**9.9**	**0.7**	**1.4**	**8.8**	**40.0**	**95.9**	**130.7**	**1.0**	**0.8**	**23.1**
	Tukwila	-	**36**	**16**	**0.9**	**12.6**	**0.6**	**1.3**	**7.3**	**28.3**	**34.6**	**62.9**	**1.3**	**(NA)**	**(NA)**
	Vancouver	-	**97**	**32**	**5.0**	**65.7**	**3.9**	**7.3**	**46.7**	**146.2**	**199.4**	**345.0**	**17.3**	**4.9**	**105.6**
20	Food and kindred products	-	9	6	1.3	12.6	1.1	1.9	10.0	47.5	81.4	128.3	(D)	(NA)	(NA)
24	Lumber and wood products	-	20	6	0.7	10.5	0.6	1.3	8.9	19.2	24.9	44.4	0.8	0.6	12.4
243	Millwork, plywood, and structural members	-	11	3	0.5	8.5	0.5	0.9	7.5	15.5	22.5	38.3	(D)	(NA)	(NA)
	Walla Walla	-	**49**	**10**	**1.3**	**16.2**	**1.0**	**2.0**	**10.7**	**45.1**	**40.6**	**83.4**	**1.3**	**(D)**	**(D)**
	Yakima	-	**125**	**47**	**4.4**	**59.2**	**3.4**	**7.0**	**42.3**	**129.6**	**210.5**	**336.6**	**12.1**	**3.1**	**69.0**

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel snd other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber snd miscellaneous plastics products; 31--lesther and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellsneous manufacturing industries. For explanation of terms, see sppendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
WASHINGTON	6723	540	-	28	195	2113	144	95	711	137	26	151	19	293	110	478	642	205	343	86	278	129
1 TO 4 EMPLOYEES	3083	151	-	10	93	1078	64	11	424	45	5	52	6	139	32	204	296	100	152	45	147	29
5 TO 9 EMPLOYEES	989	63	-	3	11	344	16	10	98	24	1	27	2	35	16	69	118	29	58	8	35	22
10 TO 19 EMPLOYEES	939	85	-	6	25	262	19	7	90	28	5	22	5	44	10	81	99	23	44	16	49	19
20 TO 49 EMPLOYEES	809	94	-	6	32	209	22	14	63	22	5	25	4	34	10	71	64	25	38	13	27	31
50 TO 99 EMPLOYEES	430	65	-	1	17	108	18	13	17	9	4	17	1	26	13	29	32	14	19	1	15	11
100 TO 249 EMPLOYEES	301	49	-	1	12	75	5	20	14	6	-	7	1	13	13	20	25	10	16	1	2	11
250 TO 499 EMPLOYEES	108	29	-	1	5	26	-	9	3	1	5	1	-	1	8	3	6	2	4	-	1	3
500 TO 999 EMPLOYEES	40	4	-	-	-	8	-	8	1	1	1	-	-	1	4	1	2	2	4	-	2	1
1000 TO 2499 EMPLOYEES	19	-	-	-	-	3	-	3	1	-	-	-	-	-	4	-	-	-	4	2	-	2
2500 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
ADAMS COUNTY	12	3	-	-	-	-	1	-	2	-	-	-	-	1	-	-	4	-	1	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	-	-	1	-	2	-	-	-	-	1	-	-	3	-	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ASOTIN COUNTY	13	-	-	-	1	4	-	-	1	-	-	-	-	3	-	1	-	-	1	1	1	-
1 TO 19 EMPLOYEES	12	-	-	-	1	3	-	-	1	-	-	-	-	3	-	1	-	-	1	1	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BENTON COUNTY	66	6	-	-	3	1	2	-	11	7	-	1	-	11	1	5	7	3	2	2	2	2
1 TO 19 EMPLOYEES	45	1	-	-	2	1	2	-	10	3	-	1	-	9	-	3	6	2	2	1	2	-
20 TO 99 EMPLOYEES	10	1	-	-	1	-	-	-	-	1	-	-	-	2	-	1	1	1	-	-	-	2
100 TO 249 EMPLOYEES	6	2	-	-	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-	1	-	-
250 EMPLOYEES AND OVER	5	2	-	-	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-
CHELAN COUNTY	82	9	-	-	3	26	-	2	10	3	-	2	-	6	3	3	10	-	3	-	2	-
1 TO 19 EMPLOYEES	58	2	-	-	1	22	-	-	8	2	-	1	-	5	1	2	9	-	3	-	2	-
20 TO 99 EMPLOYEES	17	6	-	-	2	2	-	2	1	-	-	1	-	-	1	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	6	1	-	-	-	2	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
CLALLAM COUNTY	251	5	-	-	2	209	-	2	9	-	-	-	-	6	-	3	7	1	3	1	2	1
1 TO 19 EMPLOYEES	211	4	-	-	2	176	-	-	8	-	-	-	-	5	-	3	7	1	2	1	1	1
20 TO 99 EMPLOYEES	33	1	-	-	-	28	-	-	1	-	-	-	-	1	-	-	-	1	-	-	1	-
100 TO 249 EMPLOYEES	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLARK COUNTY	258	11	-	1	2	82	8	10	20	10	-	10	-	13	6	26	29	7	5	1	13	4
1 TO 19 EMPLOYEES	189	5	-	-	1	62	6	3	17	8	-	5	-	10	2	20	25	5	5	1	12	2
20 TO 99 EMPLOYEES	42	1	-	-	-	13	2	3	2	2	-	4	-	3	1	5	2	2	-	-	1	1
100 TO 249 EMPLOYEES	14	2	-	-	-	6	-	1	-	-	-	1	-	-	1	1	1	-	-	-	-	1
250 EMPLOYEES AND OVER	13	3	-	1	1	1	-	3	1	-	-	-	-	-	2	-	1	-	-	-	-	-
COLUMBIA COUNTY	5	2	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
COWLITZ COUNTY	166	1	-	-	3	99	2	5	6	7	1	2	-	6	4	7	12	-	4	1	3	3
1 TO 19 EMPLOYEES	110	-	-	-	3	67	2	1	4	5	1	-	-	4	1	6	8	-	3	1	3	1
20 TO 99 EMPLOYEES	36	1	-	-	-	22	-	-	1	2	-	2	-	2	1	1	4	-	-	-	-	-
100 TO 249 EMPLOYEES	9	-	-	-	-	4	-	1	1	-	-	-	-	-	1	-	-	-	1	-	-	1
250 EMPLOYEES AND OVER	11	-	-	-	-	6	-	3	-	-	-	-	-	-	1	-	-	-	-	-	-	1
OOUGLAS COUNTY	8	2	-	-	1	1	-	-	1	-	-	-	-	1	1	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	7	2	-	-	1	1	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
FERRY COUNTY	19	-	-	-	-	17	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	16	-	-	-	-	14	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANKLIN COUNTY	41	6	-	-	2	1	-	-	4	-	-	1	-	3	1	6	9	1	3	-	1	3
1 TO 19 EMPLOYEES	31	2	-	-	2	1	-	-	3	-	-	-	-	2	1	4	8	1	3	-	1	3
20 TO 99 EMPLOYEES	6	1	-	-	-	-	-	-	-	-	-	1	-	1	-	2	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GARFIELO COUNTY	3	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
GRANT COUNTY	39	10	-	-	1	4	-	-	7	1	-	-	-	3	-	5	7	-	-	-	1	-
1 TO 19 EMPLOYEES	28	2	-	-	1	4	-	-	5	1	-	-	-	3	-	4	7	-	-	-	1	-
20 TO 99 EMPLOYEES	7	4	-	-	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAYS HARBOR COUNTY	324	16	-	1	-	262	-	4	8	1	1	-	-	2	2	5	10	-	4	-	3	5
1 TO 19 EMPLOYEES	251	11	-	1	-	207	-	1	7	-	-	-	-	1	1	5	8	-	3	-	2	4
20 TO 99 EMPLOYEES	56	3	-	-	-	44	-	-	1	1	1	-	-	1	1	-	1	-	1	-	1	1
100 TO 249 EMPLOYEES	8	2	-	-	-	5	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	9	-	-	-	-	6	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ISLAND COUNTY	23	-	-	-	-	9	2	-	4	-	-	-	-	1	-	2	-	3	2	-	-	-
1 TO 19 EMPLOYEES	20	-	-	-	-	9	2	-	3	-	-	-	-	1	-	2	-	2	1	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
JEFFERSON COUNTY	56	3	-	-	-	41	-	2	2	-	-	-	-	1	1	-	-	-	6	-	-	-
1 TO 19 EMPLOYEES	53	3	-	-	-	41	-	-	2	-	-	-	-	1	1	-	-	-	5	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KING COUNTY	2212	164	-	15	108	192	63	30	327	62	10	78	11	85	41	231	292	137	122	54	129	61
1 TO 19 EMPLOYEES	1593	93	-	11	64	146	40	15	284	45	6	58	7	57	25	160	220	97	82	42	108	33
20 TO 99 EMPLOYEES	473	47	-	3	36	36	22	7	37	16	3	18	3	21	8	58	53	30	28	10	18	19
100 TO 249 EMPLOYEES	99	14	-	1	7	7	1	8	4	1	-	1	1	5	5	11	15	7	4	-	1	6
250 EMPLOYEES AND OVER	47	10	-	-	1	3	-	-	2	-	1	1	-	2	3	2	4	3	8	2	2	3
KITSAP COUNTY	73	3	-	1	3	18	2	-	11	1	-	1	-	7	-	4	6	1	9	1	3	2
1 TO 19 EMPLOYEES	62	2	-	1	2	16	1	-	10	1	-	-	-	6	-	4	6	1	8	1	2	1
20 TO 99 EMPLOYEES	8	1	-	-	1	1	1	-	1	-	-	-	-	1	-	-	-	-	-	-	1	1
100 TO 249 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
KITTITAS COUNTY	54	8	-	-	1	30	-	-	2	1	-	-	-	4	1	3	1	-	1	-	2	-
1 TO 19 EMPLOYEES	48	5	-	-	1	30	-	-	1	1	-	-	-	3	1	2	1	-	1	-	2	-
20 TO 99 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KLICKITAT COUNTY	56	2	-	-	-	45	-	-	2	-	-	-	-	3	1	1	-	-	2	-	-	-
1 TO 19 EMPLOYEES	45	2	-	-	-	35	-	-	2	-	-	-	-	3	-	1	-	-	2	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
LEWIS COUNTY	195	9	-	1	2	140	3	-	7	1	-	3	2	5	1	2	4	-	5	1	5	4
1 TO 19 EMPLOYEES	143	4	-	-	1	104	3	-	5	-	-	2	1	4	-	2	4	-	5	1	5	2
20 TO 99 EMPLOYEES	38	4	-	1	1	26	-	-	1	1	-	1	1	1	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	12	1	-	-	-	8	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	1
250 EMPLOYEES AND OVER	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LINCOLN COUNTY	10	1	-	-	-	3	-	-	5	-	-	-	-	-	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	9	1	-	-	-	3	-	-	4	-	-	-	-	-	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
MASON COUNTY	97	7	-	-	1	71	1	-	2	-	-	-	-	4	-	-	5	-	3	-	-	3
1 TO 19 EMPLOYEES	84	5	-	-	1	65	1	-	1	-	-	-	-	4	-	-	5	-	2	-	-	-
20 TO 99 EMPLOYEES	8	2	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2
100 TO 249 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
250 EMPLOYEES AND OVER	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OKANOGAN COUNTY	54	3	-	-	-	31	-	-	5	-	-	-	-	6	-	-	5	1	2	-	1	-
1 TO 19 EMPLOYEES	45	2	-	-	-	24	-	-	5	-	-	-	-	5	-	-	5	1	2	-	1	-
20 TO 99 EMPLOYEES	8	1	-	-	-	6	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC COUNTY	68	13	-	-	-	44	-	-	4	-	-	-	-	1	-	1	3	-	1	-	1	-
1 TO 19 EMPLOYEES	53	6	-	-	-	36	-	-	4	-	-	-	-	1	-	1	3	-	1	-	1	-
20 TO 99 EMPLOYEES	12	6	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PEND OREILLE COUNTY	39	1	-	-	-	34	-	-	2	-	-	-	-	1	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	32	-	-	-	-	30	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	1	-	-	-	3	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
PIERCE COUNTY	615	58	-	1	18	176	27	12	59	15	4	22	2	24	11	44	47	9	40	6	27	13
1 TO 19 EMPLOYEES	443	34	-	1	13	133	19	1	53	8	1	13	2	15	5	38	34	8	33	4	23	5
20 TO 99 EMPLOYEES	122	18	-	-	1	34	6	7	4	4	3	7	-	8	1	4	11	-	3	2	4	5
100 TO 249 EMPLOYEES	30	4	-	-	3	3	2	2	1	2	-	2	-	1	1	2	2	1	3	-	-	1
250 EMPLOYEES AND OVER	20	2	-	-	1	6	-	2	1	1	-	-	-	-	4	-	-	-	1	-	-	2
SAN JUAN COUNTY	25	2	-	-	-	10	-	-	4	-	-	-	-	4	-	1	-	-	3	1	-	-
1 TO 19 EMPLOYEES	25	2	-	-	-	10	-	-	4	-	-	-	-	4	-	1	-	-	3	1	-	-
SKAGIT COUNTY	151	23	-	-	1	79	-	1	8	2	2	-	-	5	3	3	6	2	12	1	3	-
1 TO 19 EMPLOYEES	117	14	-	-	1	66	-	-	6	1	-	-	-	4	3	3	5	1	9	1	3	-
20 TO 99 EMPLOYEES	24	5	-	-	-	10	-	1	2	1	-	-	-	1	-	-	-	1	3	-	-	-
100 TO 249 EMPLOYEES	5	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	1	-	-	-	1	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-
SKAMANIA COUNTY	25	-	-	-	-	20	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-	1
1 TO 19 EMPLOYEES	19	-	-	-	-	14	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-	1
20 TO 99 EMPLOYEES	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SNOHOMISH COUNTY	505	27	-	1	15	170	14	7	42	3	1	9	1	24	6	42	52	16	41	7	21	6
1 TO 19 EMPLOYEES	391	17	-	1	12	137	10	2	33	3	-	6	1	20	3	32	44	13	29	6	18	4
20 TO 99 EMPLOYEES	80	8	-	-	3	21	4	1	8	-	-	2	-	3	3	7	5	2	7	1	3	2
100 TO 249 EMPLOYEES	19	1	-	-	-	8	-	1	1	-	-	1	-	1	-	2	2	1	1	-	-	-
250 EMPLOYEES AND OVER	15	1	-	-	-	4	-	3	-	-	1	-	-	-	-	1	1	-	4	-	-	-
SPOKANE COUNTY	447	44	-	1	13	58	11	6	71	14	3	7	2	23	16	46	50	14	22	6	31	9
1 TO 19 EMPLOYEES	315	25	-	-	10	37	8	1	62	11	1	5	1	14	6	32	40	11	16	5	24	6
20 TO 99 EMPLOYEES	99	15	-	1	1	16	3	4	8	2	2	2	1	6	6	12	6	2	2	1	6	3
100 TO 249 EMPLOYEES	25	4	-	-	1	5	-	1	-	1	-	-	-	3	2	2	3	-	3	-	-	-
250 EMPLOYEES AND OVER	8	-	-	-	1	-	-	-	1	-	-	-	-	-	2	-	1	1	1	-	1	-
STEVENS COUNTY	94	1	-	-	1	75	1	-	2	-	-	-	-	4	1	-	7	-	2	-	-	-
1 TO 19 EMPLOYEES	78	1	-	-	1	64	1	-	1	-	-	-	-	3	-	-	5	-	2	-	-	-
20 TO 99 EMPLOYEES	11	-	-	-	-	7	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
THURSTON COUNTY	125	14	-	-	3	57	3	3	15	-	-	4	-	4	-	5	6	1	5	-	3	2
1 TO 19 EMPLOYEES	96	11	-	-	1	48	2	1	12	-	-	2	-	2	-	3	6	1	3	-	3	1
20 TO 99 EMPLOYEES	19	1	-	-	2	5	1	-	2	-	-	2	-	2	-	1	-	-	2	-	-	1
100 TO 249 EMPLOYEES	8	1	-	-	-	3	-	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WAHKIAKUM COUNTY	13	-	-	-	-	12	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	11	-	-	-	-	10	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WALLA WALLA COUNTY	62	11	-	-	1	10	1	3	9	-	-	1	-	4	1	4	8	3	3	-	1	2
1 TO 19 EMPLOYEES	46	6	-	-	1	7	-	1	8	-	-	1	-	4	1	3	6	3	3	-	1	1
20 TO 99 EMPLOYEES	9	3	-	-	-	3	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	1
100 TO 249 EMPLOYEES	5	1	-	-	-	-	1	1	-	-	-	-	-	-	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WHATCOM COUNTY	183	29	-	6	4	43	-	2	14	2	3	2	-	12	4	10	17	4	20	1	9	1
1 TO 19 EMPLOYEES	142	17	-	4	3	37	-	-	11	2	1	1	-	9	3	9	17	3	16	1	7	1
20 TO 99 EMPLOYEES	28	10	-	2	1	5	-	-	2	-	-	-	-	1	-	1	-	1	3	-	2	-
100 TO 249 EMPLOYEES	7	2	-	-	-	1	-	-	1	-	-	1	-	2	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	2	-	-	2	-	-	-	1	-	-	-	1	-	-	-
WHITMAN COUNTY	20	1	-	-	-	-	-	-	7	-	-	-	-	2	-	1	5	-	2	2	-	-
1 TO 19 EMPLOYEES	18	1	-	-	-	-	-	-	6	-	-	-	-	2	-	1	4	-	2	2	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
YAKIMA COUNTY	234	45	-	-	6	38	3	6	22	7	1	8	1	11	5	15	30	2	14	-	13	7
1 TO 19 EMPLOYEES	149	17	-	-	4	23	1	2	21	6	1	6	1	9	4	11	24	2	6	-	7	4
20 TO 99 EMPLOYEES	61	18	-	-	-	11	1	2	-	1	-	2	-	2	1	4	6	-	5	-	5	3
100 TO 249 EMPLOYEES	19	7	-	-	1	3	1	2	1	-	-	-	-	-	-	-	-	-	3	-	1	-
250 EMPLOYEES AND OVER	5	3	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

West Virginia

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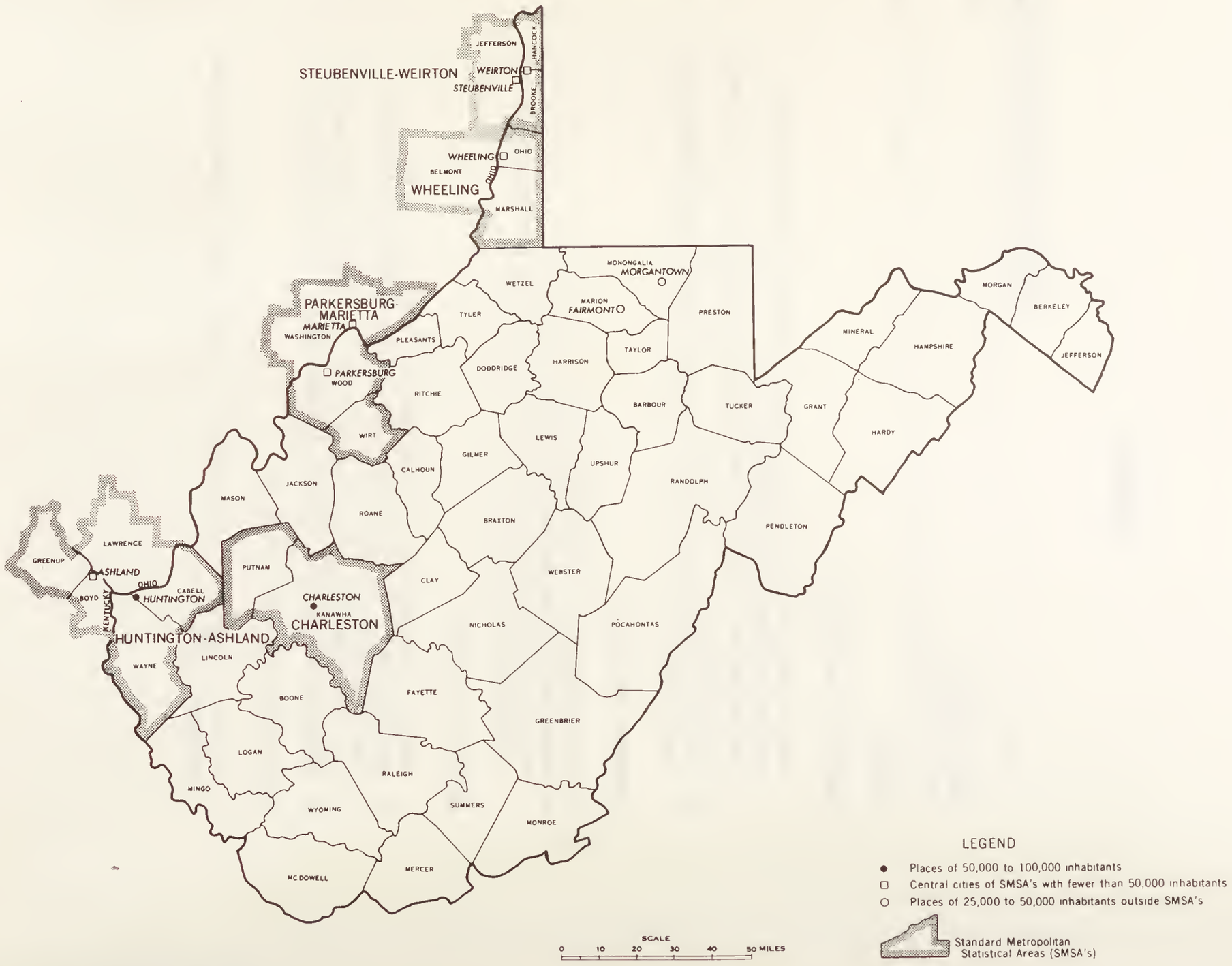
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WEST VIRGINIA



U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 117.0 thousand persons were employed in West Virginia's manufacturing establishments. This figure represented a decrease of 3 percent from the 1972 figure of 120.8 thousand workers.

The total value added by manufacture for the State amounted to $3,880 million in 1977, an increase of approximately 46 percent from the 1972 figure of $2,647 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were primary metal industries; chemicals and allied products; stone, clay, and glass products; and fabricated metal products. They accounted for approximately 59 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 57 percent of the State's employment.

The most important counties in the State ranked by employment were Hancock, Kanawha, Cabell, and Wood. They accounted for approximately 45 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 45 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 4 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
West Virginia:						
1977	117.0	1,620.5	114.3	1,568.4	2.7	52.1
1972	120.8	1,097.6	116.8	1,042.6	4.0	55.0
1967	124.0	831.6	120.8	801.0	3.2	30.6
1963	117.0	700.1	112.8	659.4	4.3	40.6
STANDARD METROPOLITAN STATISTICAL AREAS						
Charleston:						
1977	15.7	245.4	14.7	224.8	1.0	20.6
1972	16.2	167.8	15.5	154.3	.7	13.5
1967	20.9	166.7	19.6	152.5	1.3	14.2
1963	21.2	159.6	(D)	(D)	(D)	(D)
Huntington-Ashland, W. Va.-Ky.-Ohio:						
1977	29.6	438.8	29.4	436.3	.2	2.5
1972	25.7	254.4	24.2	237.5	1.5	16.9
1967	27.4	194.9	26.3	184.2	1.1	10.7
1963	23.6	145.7	(D)	(D)	(D)	(D)
Parkersburg-Marietta, W. Va.-Ohio:						
1977	15.8	222.4	-	-	-	-
1972	18.0	173.0	(D)	(D)	(D)	(D)
Steubenville-Weirton, Ohio-W. Va.:						
1977	26.7	497.6	26.5	494.7	.2	.
1972	29.0	329.3	27.8	312.9	1.2	16.4
1967	8.4	230.3	27.2	220.0	1.2	10.3
1963	28.6	206.0	(D)	(D)	(D)	(D)
Wheeling, W. Va.-Ohio:						
1977	13.0	173.5	(D)	(D)	(D)	(D)
1972	13.3	118.3	(D)	(D)	(D)	(D)
1967	16.3	106.6	15.6	100.4	.7	6.2
1963	15.6	92.9	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers							Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
	WEST VIRGINIA														
1977 CENSUS.	1 857	583	117.0	1 620.5	89.2	170.9	1 124.3	3 880.2	4 881.5	8 705.9	402.3	.60	100	100	19 596.9
1976 ASM....	(NA)	(NA)	120.0	1 520.8	89.0	168.6	1 023.9	3 557.7	4 478.2	7 937.6	288.8	.64	103	96	18 753.0
1975 ASM....	(NA)	(NA)	117.4	1 346.3	86.3	164.2	886.9	3 044.7	3 862.8	6 743.7	363.9	.64	100	94	18 302.2
1974 ASM....	(NA)	(NA)	126.9	1 337.6	96.6	186.9	915.8	3 320.1	3 680.9	6 893.4	299.6	.64	108	102	19 844.8
1973 ASM....	(NA)	(NA)	128.3	1 240.8	97.6	191.2	844.7	2 883.9	2 696.6	5 609.1	230.7	.64	110	102	19 897.9
1972 CENSUS.	1 733	606	120.8	1 097.6	92.7	181.8	765.4	2 646.7	2 389.3	5 021.9	216.0	.63	103	98	19 028.7
1971 ASM....	(NA)	(NA)	118.3	1 017.7	89.4	175.1	701.4	2 387.7	2 188.6	4 561.5	241.3	.64	101	94	18 363.1
1970 ASM....	(NA)	(NA)	122.4	989.3	92.2	183.0	674.7	2 317.5	2 164.3	4 470.8	251.9	.64	105	99	19 217.2
1969 ASM....	(NA)	(NA)	128.1	953.1	98.4	194.7	668.4	2 288.9	2 080.8	4 331.8	198.0	.64	110	103	20 035.5
1968 ASM....	(NA)	(NA)	123.3	878.2	95.4	190.3	621.2	2 220.4	2 031.7	4 264.3	210.6	.63	105	100	19 527.6
1967 CENSUS.	1 844	563	124.0	831.6	96.7	189.9	587.3	2 169.5	1 899.8	4 046.5	269.0	.64	106	99	19 323.2
1966 ASM....	(NA)	(NA)	124.6	806.5	97.4	194.8	574.3	2 146.9	1 855.3	3 982.9	249.3	.65	107	98	19 024.5
1965 ASM....	(NA)	(NA)	120.9	759.5	94.2	188.1	540.9	2 060.3	1 699.7	3 732.0	198.6	.67	103	92	18 010.2
1964 ASM....	(NA)	(NA)	119.2	737.0	90.7	182.6	516.6	1 875.6	1 606.9	3 483.9	180.3	.69	102	89	17 268.5
1963 CENSUS.	1 832	528	117.0	700.1	90.2	179.8	491.3	1 886.4	(NA)	(NA)	173.0	.69	100	87	16 958.4

(NA) Not available.

[1] In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2] Including central administrative offices and auxiliaries (for definition, see appendix B).

[3] Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	WEST VIRGINIA								
1977 CENSUS.....	13 853	76	1 916	6.58	56	75	33 171	42	22.71
1976 ASM.....	12 673	74	1 894	6.07	56	76	29 648	43	21.10
1975 ASM.....	11 468	74	1 903	5.40	57	77	25 934	44	18.54
1974 ASM.....	10 541	76	1 935	4.90	53	73	26 163	40	17.76
1973 ASM.....	9 671	76	1 959	4.42	48	70	22 478	43	15.08
1972 CENSUS.....	9 086	77	1 961	4.21	48	69	21 910	41	14.56
1971 ASM.....	8 603	76	1 959	4.01	48	70	20 183	43	13.64
1970 ASM.....	8 083	75	1 985	3.69	48	71	18 934	43	12.66
1969 ASM.....	7 440	77	1 979	3.43	48	70	17 868	42	11.76
1968 ASM.....	7 122	77	1 995	3.26	48	68	18 008	40	11.67
1967 CENSUS.....	6 706	78	1 964	3.09	47	68	17 496	38	11.42
1966 ASM.....	6 473	78	2 000	2.95	47	67	17 230	38	11.02
1965 ASM.....	6 282	78	1 997	2.88	46	66	17 041	37	10.95
1964 ASM.....	6 183	76	2 013	2.83	46	67	15 735	39	10.27
1963 CENSUS.....	5 984	77	1 993	2.73	(NA)	(NA)	16 123	37	10.49

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	1 857	1 734
With 1 to 19 employees	do	1 274	1 127
With 20 to 99 employees	do	368	383
With 100 employees or more	do	215	224
All employees, average for year[1]	1,000	117.0	120.8
Payroll for year, all employees[1]	mil. dollars	1 620.5	1 097.6
Production workers:			
Average for year	1,000	89.2	92.7
March	do	87.2	90.8
May	do	89.2	92.5
August	do	90.4	92.9
November	do	89.6	94.8
Hours	millions	170.9	181.8
January to March	do	40.9	45.0
April to June	do	43.7	45.5
July to September	do	43.2	44.9
October to December	do	43.0	46.4
Wages	mil. dollars	1 124.3	765.4
Cost of materials, etc.[2]	do	4 881.5	2 389.3
Materials, parts, containers, etc., consumed	do	4 246.7	2 094.4
Resales	do	130.7	89.8
Fuels consumed	do	253.3	87.9
Purchased electric energy	do	179.0	78.1
Contract work	do	71.7	39.0
Value of shipments, including resales[2]	do	8 705.9	5 021.9
Value of resales	do	153.1	108.5
Value added by manufacture	do	3 880.2	2 646.7
Manufacturers' inventories:			
Beginning of year	do	1 325.1	689.7
Finished products	do	486.2	286.3
Work in process	do	378.3	178.7
Materials, supplies, fuel, etc.	do	460.6	224.7
End of year	do	1 389.4	686.5
Finished products	do	522.7	274.9
Work in process	do	402.6	196.5
Materials, supplies, fuel, etc.	do	464.0	215.2
Capital expenditures for plant and equipment	do	426.1	219.8
New capital expenditures	do	402.3	216.0
New buildings and other structures	do	50.9	41.9
New machinery and equipment	do	351.4	174.1
Used capital expenditures	do	23.8	3.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	4,650.6	1
New capital expenditures	408.7	2
Used capital expenditures	24.1	5
Retirements	179.2	2
End of year	4,904.3	1
Buildings and other structures:		
Beginning of year	796.3	1
New capital expenditures	53.3	6
Used capital expenditures	2.0	9
Retirements	25.8	10
End of year	825.7	1
Machinery and equipment:		
Beginning of year	3,854.3	1
New capital expenditures	355.5	2
Automobiles, trucks, etc., for highway use	7.1	(NA)
Computers and peripheral data processing equip.	3.7	(NA)
All other	250.1	(NA)
New machinery and equipment, n.s.k.	94.6	(NA)
Used capital expenditures	22.2	5
Retirements	153.4	2
End of year	4,078.5	1
Rental payments:		
Total	33.8	6
Buildings and other structures	11.4	7
Machinery and equipment	22.4	8
Depreciation charges during 1977:		
Total	249.6	1
Buildings and other structures	31.4	2
Machinery and equipment	218.2	1
Supplemental labor costs:		
Total	365.8	1
Legal costs	116.7	1
Voluntary costs	249.2	1
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	13.6	12
Response coverage ratio (percent)	60	(X)
Machinery	54.7	10
Response coverage ratio (percent)	59	(X)
Cost of purchased communication services	(9.5)	(A)
Response coverage ratio (percent)	63	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
(A) Indicates standard errors of 100 percent or more. Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
West Virginia	-	**1 857**	**583**	**117.0**	**1 620.5**	**89.2**	**170.9**	**1 124.3**	**3 880.2**	**4 881.5**	**8 705.9**	**402.3**	**120.8**	**2 646.7**
STANDARD METROPOLITAN STATISTICAL AREAS														
Charleston	-	205	66	15.7	245.4	10.9	21.6	156.7	725.7	932.4	1 647.8	125.8	16.2	603.9
Huntington-Ashland, W. Va.-Ky.-Ohio	-	339	125	29.6	438.8	20.9	40.9	288.1	754.3	1 982.8	2 728.9	233.7	25.7	530.1
Portion in Ohio	E1	52	16	3.1	40.9	2.5	5.1	31.7	83.4	144.8	229.1	15.7	3.2	76.0
Portion in West Virginia	E1	199	71	14.8	199.1	11.2	21.9	138.0	381.2	675.5	1 060.6	47.7	14.0	230.1
Portion in Kentucky	-	88	38	11.7	198.8	7.3	13.9	118.4	289.6	1 162.5	1 439.2	170.2	8.5	224.0
Parkersburg-Marietta, W. Va.-Ohio	-	182	63	15.8	222.4	11.2	21.7	139.7	724.9	779.3	1 479.2	85.3	18.0	482.2
Portion in Ohio	-	83	28	6.2	84.3	4.3	8.2	52.9	228.0	375.0	587.5	43.4	5.9	139.1
Portion in West Virginia	-	99	35	9.6	138.1	6.9	13.5	86.8	496.9	404.3	891.7	41.9	12.1	343.1
Steubenville-Weirton, Ohio-W. Va.	-	138	67	26.7	497.6	21.2	41.0	382.6	955.0	1 643.9	2 601.6	67.9	29.0	705.7
Portion in Ohio	-	68	28	7.9	147.4	6.2	11.9	113.6	400.6	657.4	1 058.9	21.2	9.3	263.7
Portion in West Virginia	-	70	39	18.7	350.3	15.0	29.1	269.0	554.4	986.5	1 542.8	46.7	19.7	442.0
Wheeling, W. Va.-Ohio	E5	156	68	13.0	173.5	9.8	17.9	117.2	427.3	552.0	978.6	40.3	13.3	202.8
Portion in Ohio	-	64	22	4.1	53.1	3.2	5.8	39.3	140.5	226.6	368.2	5.4	5.2	69.3
Portion in West Virginia	E8	92	46	9.0	120.4	6.6	12.1	77.8	286.9	325.3	610.4	34.9	8.1	133.5
COUNTIES														
Barbour	E5	18	2	0.2	1.3	0.2	0.3	0.9	2.6	3.7	6.3	(D)	0.2	1.3
Berkeley	-	33	18	3.6	41.3	2.7	5.4	27.1	117.7	96.3	212.1	4.9	3.3	83.4
Boone	-	12	1	0.2	1.9	0.2	0.3	1.6	5.2	7.5	12.7	0.3	0.1	1.8
Braxton	E1	17	4	0.2	1.7	0.2	0.4	1.5	2.8	5.1	7.9	0.3	0.3	2.2
Brooke	-	37	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	66.9
Cabell	-	150	57	13.1	179.6	9.9	19.4	125.7	329.2	616.4	951.2	(D)	12.1	209.1
Calhoun	E2	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clay	E2	8	2	(Z)	0.3	(Z)	0.1	0.2	0.2	0.7	0.9	0.1	0.1	0.7
Doddridge	-	8	2	0.1	0.7	0.1	0.2	0.6	1.0	1.2	2.1	(D)	(D)	(D)
Fayette	-	39	7	1.6	22.2	1.2	2.4	15.6	37.4	57.8	89.8	2.3	(D)	(D)
Gilmer	E1	14	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grant	E2	23	4	0.2	2.5	0.2	0.4	1.8	5.3	11.8	17.3	0.4	0.5	11.2
Greenbrier	-	42	10	1.7	14.5	1.4	2.4	9.6	31.8	30.1	62.4	1.3	0.8	12.4
Hampshire	-	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	4.9
Hancock	-	33	19	15.4	301.4	12.4	23.9	232.6	435.8	751.6	1 191.5	29.2	15.4	375.1
Hardy	-	19	4	1.0	7.1	0.9	1.7	5.8	20.9	27.5	48.2	(D)	1.5	14.1
Harrison	-	88	24	4.6	53.7	3.6	6.8	39.6	106.5	135.5	242.9	6.4	5.7	96.9
Jackson	-	16	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jefferson	-	25	8	1.2	13.2	1.0	1.7	9.3	79.3	43.3	121.2	3.3	1.5	18.3
Kanawha	-	184	60	14.3	227.0	9.7	19.2	141.9	697.9	875.2	1 562.8	123.4	14.7	577.4
Lewis	-	28	5	1.0	8.0	0.9	1.9	6.6	13.8	7.2	21.1	2.3	1.1	8.6
Lincoln	E3	14	1	0.2	1.0	0.1	0.2	0.8	1.5	0.7	2.2	(D)	(D)	(D)
Logan	E2	32	12	0.6	5.7	0.5	0.9	3.6	11.1	13.2	24.1	2.5	1.0	8.2
McDowell	-	10	4	0.4	7.9	0.1	0.2	0.7	2.0	2.3	4.3	0.2	0.3	3.2
Marion	-	78	26	5.5	67.4	4.3	8.2	50.2	146.5	137.5	284.6	10.8	5.7	103.4
Marshall	-	26	14	4.6	68.7	3.3	6.4	45.6	182.0	254.9	440.5	30.8	4.1	79.6
Mason	-	19	9	1.5	19.6	1.1	2.2	14.0	49.3	106.0	153.7	5.8	1.5	39.9
Mercer	-	71	19	2.1	26.3	1.5	3.1	16.6	67.4	49.0	113.1	7.4	2.6	39.1
Mineral	-	31	7	1.2	16.7	0.6	1.1	5.4	16.8	14.5	31.6	1.5	1.3	4.9
Mingo	E1	26	6	0.4	3.9	0.3	0.7	2.7	9.8	12.6	22.5	0.7	0.4	6.9
Monongalia	-	69	16	2.8	27.3	2.2	4.1	17.6	42.2	51.5	92.6	4.6	2.8	35.1
Monroe	-	12	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.2
Morgan	E1	11	3	0.1	1.5	0.1	0.2	1.1	4.2	2.7	7.1	(D)	0.1	1.1
Nicholas	-	38	10	0.9	8.2	0.7	1.3	5.2	19.9	13.4	34.2	0.6	1.3	13.8
Ohio	-	66	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	54.0
Pendleton	-	11	5	0.7	4.0	0.6	1.1	3.7	9.1	10.1	19.1	0.4	0.5	2.5
Pleasants	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pocahontas	-	19	7	0.5	4.1	0.5	0.8	3.7	7.7	19.7	27.2	1.0	0.4	4.5
Preston	-	34	9	1.0	8.7	0.9	1.7	7.4	22.1	16.9	37.7	2.0	1.1	12.4
Putnam	-	21	6	1.4	18.4	1.2	2.4	14.8	27.7	57.2	85.0	2.4	1.5	26.5
Raleigh	-	54	22	1.4	16.8	0.9	1.9	9.5	43.9	55.1	96.7	2.6	1.4	56.9
Randolph	E1	48	14	1.2	8.2	1.0	1.8	6.4	17.9	18.6	36.0	(D)	1.6	14.3
Ritchie	-	20	7	0.7	5.3	0.7	1.2	4.1	10.8	11.6	22.4	(D)	0.6	3.9
Roane	-	23	6	1.1	8.4	0.8	1.5	6.1	24.9	27.4	50.3	1.0	0.8	8.5
Summers	E2	14	2	0.1	0.8	0.1	0.1	0.5	2.0	1.6	3.7	0.1	(Z)	(NA)
Taylor	-	8	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	8.2
Tucker	E1	11	4	0.6	4.9	0.6	1.2	4.3	14.8	11.7	26.7	0.4	0.6	5.4
Tyler	-	14	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Upshur	-	36	8	1.0	10.7	0.8	1.6	8.2	31.4	31.7	61.8	1.6	1.0	23.5
Wayne	-	49	14	1.7	19.6	1.3	2.5	12.3	52.0	59.1	109.4	(D)	1.8	21.0
Webster	E2	21	5	0.2	1.4	0.2	0.3	1.1	2.3	2.3	4.7	(D)	0.2	1.8
Wetzel	-	24	7	1.6	21.6	1.2	2.2	14.5	80.8	46.9	128.1	(D)	2.4	72.6
Wirt	-	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wood	-	93	34	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	-	23	5	0.3	2.3	0.2	0.4	1.6	4.2	4.6	8.7	(D)	0.3	4.0
CITIES														
Beckley	-	30	14	1.0	10.9	0.6	1.1	5.4	26.7	41.2	67.1	1.9	0.6	9.4
Benwood	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bluefield	-	23	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	21.3
Buckhannon	-	27	7	1.0	10.3	0.8	1.6	7.9	30.6	30.6	60.0	1.5	1.0	23.3
Charleston	-	89	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.1	243.4
Chester	-	12	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	13.9
Clarksburg	-	55	18	3.8	45.5	3.0	5.6	33.0	89.2	97.4	187.5	5.6	5.1	74.3
Elkins	E1	26	9	0.8	5.4	0.7	1.2	4.2	13.1	10.0	22.8	0.7	1.3	10.4
Fairmont	-	58	22	5.1	64.7	4.0	7.7	48.0	139.3	132.3	272.9	10.6	(D)	(D)

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
CITIES—Con.														
Huntington	-	125	53	12.9	177.6	9.8	19.2	123.8	327.0	609.0	941.5	20.4	12.0	201.3
Keyser	-	18	6	0.6	6.2	0.5	1.0	5.0	15.9	13.7	29.8	1.4	(NA)	(NA)
Kingwood	-	9	3	0.5	4.7	0.5	1.0	4.1	6.5	7.1	13.6	(D)	0.6	6.0
Martinsburg	-	30	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Morgantown	-	53	14	2.5	24.4	1.9	3.6	15.3	36.5	48.7	84.4	4.5	2.1	26.4
Moundsville	-	14	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
New Martinsville	-	13	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nitro	-	17	11	2.3	33.3	1.8	3.7	24.4	103.2	139.3	242.7	17.4	1.0	50.0
Parkersburg	-	59	20	3.4	38.9	2.4	4.4	23.6	92.7	68.6	164.3	4.1	5.4	103.3
Princeton	-	38	12	1.1	12.0	0.9	1.5	7.4	24.9	23.3	48.5	2.6	0.9	11.1
Ravenswood	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South Charleston	-	20	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Vienna	-	10	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Weirton	E4	16	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wellsburg	-	17	8	1.0	10.4	0.8	1.6	7.2	21.2	26.2	47.6	(D)	1.0	16.2
Weston	-	14	4	0.9	7.4	0.9	1.8	6.1	10.8	5.1	15.9	(D)	0.9	7.2
Wheeling	-	61	30	4.3	50.9	3.2	5.6	31.8	102.5	68.6	166.0	3.6	(D)	(D)
Williamstown	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	8.4

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	**1 857**	**583**	**117.0**	**1 620.5**	89.2	**170.9**	**1 124.3**	**3 880.2**	**4 881.5**	**8 705.9**	**402.3**	**120.8**	**2 646.7**
20	**Food and kindred products**	**E1**	**126**	**53**	**5.1**	59.0	**2.9**	6.1	27.8	**148.4**	**244.2**	**391.6**	**13.4**	**5.9**	**95.6**
201	Meat products	E2	28	9	0.9	7.9	0.7	1.4	5.4	17.6	60.8	78.3	(D)	CC	(D)
2011	Meat packing plants	E4	23	4	0.3	3.5	0.2	0.5	2.3	6.0	34.7	40.6	0.1	CC	(D)
2016	Poultry dressing plants	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2017	Poultry and egg processing	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
202	Dairy products	-	16	9	0.9	11.9	0.3	0.7	3.6	21.6	55.3	76.8	3.9	1.0	14.8
2026	Fluid milk	-	15	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
203	Preserved fruits and vegetables	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2033	Canned fruits and vegetables	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
205	Bakery products	-	20	10	1.5	19.7	0.8	1.9	10.4	53.4	42.6	96.1	2.3	1.8	34.5
2051	Bread, cake, and related products	-	20	10	1.5	19.7	0.8	1.9	10.4	53.4	42.6	96.1	2.3	1.8	34.5
208	Beverages	E2	36	20	1.2	13.7	0.5	1.0	4.0	40.8	49.8	90.1	4.2	1.4	21.8
2086	Bottled and canned soft drinks	E2	36	20	1.2	13.7	0.5	1.0	4.0	40.8	49.8	90.1	4.2	1.4	21.8
209	Miscellaneous foods and kindred products	-	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
21	**Tobacco products**	-	**2**	**2**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**BB**	**(D)**
2131	Chewing and smoking tobacco	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
22	**Textile mill products**	-	**7**	**4**	**0.7**	**5.6**	**0.6**	**1.1**	**4.0**	**10.6**	**15.2**	**24.2**	**1.9**	**0.8**	**8.4**
225	Knitting mills	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2253	Knit outerwear mills	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
23	**Apparel and other textile products**	-	**63**	**34**	**5.4**	**34.7**	**4.8**	**7.9**	**28.8**	**60.8**	**44.8**	**105.4**	**(D)**	**5.2**	**33.4**
2311	Men's and boys' suits and coats	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
232	Men's and boys' furnishings	-	9	8	1.5	9.9	1.4	2.2	7.5	18.6	10.3	28.7	(D)	1.5	9.3
2321	Men's and boys' shirts and nightwear	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2327	Men's and boys' separate trousers	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2328	Men's and boys' work clothing	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2329	Men's and boys' clothing, n.e.c.	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
233	Women's and misses' outerwear	-	30	17	2.3	13.6	2.1	3.6	11.1	22.4	15.3	37.9	(D)	EE	(D)
2331	Women's and misses' blouses and waists	-	6	5	0.7	4.1	0.6	1.1	3.2	7.8	6.3	14.1	(D)	CC	(D)
2335	Women's and misses' dresses	-	17	7	1.3	7.6	1.1	1.9	6.2	11.8	8.7	20.8	(D)	1.2	7.4
2337	Women's and misses' suits and coats	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	-	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
234	Women's and children's undergarments	-	6	6	0.6	3.5	0.5	0.7	2.8	4.2	0.3	4.2	(D)	EE	(D)
2341	Women's and children's underwear	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2342	Brassieres and allied garments	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
239	Miscellaneous fabricated textile products	-	14	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2391	Curtains and draperies	-	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
24	**Lumber and wood products**	**E2**	**465**	**67**	**5.1**	**39.9**	**4.6**	**8.5**	**32.1**	**88.0**	**101.5**	**187.4**	**(D)**	**6.0**	**59.8**
2411	Logging camps and logging contractors	E3	177	5	0.7	5.7	0.7	1.0	5.0	10.3	14.4	24.7	(D)	0.8	6.3
242	Sawmills and planing mills	E2	218	45	2.6	19.2	2.4	4.6	16.0	42.4	44.5	87.5	(D)	3.0	33.5
2421	Sawmills and planing mills, general	E2	207	41	2.2	16.4	2.0	3.9	13.5	37.5	37.7	75.9	(D)	2.5	29 3
2426	Hardwood dimension and flooring	E1	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	3.8
243	Millwork, plywood, and structural members	-	17	5	0.7	5.7	0.6	1.2	4.4	14.6	14.1	28.1	(D)	1.5	13.2
2434	Wood kitchen cabinets	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2435	Hardwood veneer and plywood	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.1
244	Wood containers	E1	20	7	0.5	3.5	0.4	0.7	2.9	6.4	6.9	13.5	0.4	0.3	2.8
2448	Wood pallets and skids	E1	18	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.4
249	Miscellaneous wood products	E5	30	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.9
2491	Wood preserving	E5	10	3	0.5	4.6	0.4	0.8	3.0	12.1	18.9	28.8	(D)	BB	(D)
25	**Furniture and fixtures**	-	**37**	**14**	**1.1**	**8.2**	**0.9**	**1.7**	**6.0**	**15.6**	**18.9**	**34.6**	**(D)**	**1.1**	**10.9**
251	Household furniture	-	22	11	0.8	5.8	0.7	1.3	4.3	11.9	16.3	28.4	(D)	0.6	5.5
2512	Upholstered household furniture	E4	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.5
2514	Metal household furniture	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2515	Mattresses and bedsprings	-	5	4	0.2	1.6	0.2	0.3	1.0	3.3	6.5	9.8	(D)	0.2	1.9
26	**Paper and allied products**	-	**28**	**18**	**1.6**	**15.6**	**1.2**	**2.3**	**10.8**	**35.5**	**43.0**	**78.7**	**1.3**	**1.7**	**27.4**
2631	Paperboard mills	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
264	Miscellaneous converted paper products	-	15	7	0.7	6.7	0.5	1.0	4.3	17.4	19.0	36.7	0.4	CC	(D)
2643	Bags, except textile bags	-	7	4	0.3	2.8	0.2	0.4	2.2	7.6	13.2	20.9	0.2	0.3	4.7
2649	Converted paper products, n.e.c.	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
265	Paperboard containers and boxes	-	10	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	10.8
2653	Corrugated and solid fiber boxes	-	8	7	0.5	5.6	0.4	0.8	3.8	9.4	13.3	22.7	0.4	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
27	**Printing and publishing**	–	**214**	**38**	**4.1**	**43.0**	**2.5**	**4.5**	**25.0**	**100.4**	**53.7**	**153.6**	**4.5**	**4.1**	**71.8**
2711	Newspapers	–	95	21	2.6	26.3	1.4	2.4	13.2	63.5	18.1	81.6	2.8	FF	(D)
275	Commercial printing	E1	102	11	0.9	9.7	0.7	1.2	6.6	19.5	13.0	32.4	1.4	0.9	13.0
2751	Commercial printing, letterpress	E5	60	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2752	Commercial printing, lithographic	–	40	10	0.7	7.9	0.5	0.9	5.3	16.0	10.7	26.6	1.2	0.5	8.3
2761	Manifold business forms	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
28	**Chemicals and allied products**	–	73	**39**	**19.3**	332.6	**13.8**	**28.3**	**219.3**	**1 324.6**	**1 473.6**	**2 774.9**	**218.8**	**20.9**	**949.8**
281	Industrial inorganic chemicals	–	20	5	1.2	19.2	0.7	1.5	11.5	104.0	68.0	171.6	5.4	1.5	56.9
2812	Alkalies and chlorine	–	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2813	Industrial gases	–	15	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	20.8
282	Plastics materials and synthetics	–	6	6	5.0	85.2	3.5	7.4	52.6	362.3	355.1	705.4	38.8	7.1	252.9
2821	Plastics materials and resins	–	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2823	Cellulosic manmade fibers	–	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
283	Drugs	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2834	Pharmaceutical preparations	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
286	Industrial organic chemicals	–	22	19	12.1	211.4	8.8	17.9	145.7	814.8	982.8	1 788.1	170.9	11.5	615.0
2861	Gum and wood chemicals	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2865	Cyclic crudes and intermediates	–	7	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2869	Industrial organic chemicals, n.e.c.	–	14	13	8.8	155.0	6.4	13.0	108.0	637.1	771.7	1 396.0	140.7	9.4	549.6
289	Miscellaneous chemical products	–	7	3	0.7	12.4	0.4	0.9	7.1	30.8	48.1	78.0	3.0	0.6	20.1
2892	Explosives	–	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
29	**Petroleum and coal products**	–	**27**	**9**	**0.9**	13.9	**0.7**	**1.5**	**10.8**	**34.7**	**219.5**	**251.3**	**14.2**	**0.9**	**25.9**
2911	Petroleum refining	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
295	Paving and roofing materials	–	22	4	0.2	2.8	0.2	0.4	2.2	7.6	16.8	24.3	3.1	0.3	5.3
30	**Rubber and miscellaneous plastics products**	**E1**	**35**	**15**	**EE**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**EE**	**(D)**
3021	Rubber and plastics footwear	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3069	Fabricated rubber products, n.e.c.	E1	11	7	0.8	7.2	0.7	1.4	5.2	16.6	13.0	29.1	0.6	CC	(D)
3079	Miscellaneous plastics products	E1	20	5	0.5	4.7	0.4	0.9	3.2	11.7	13.6	25.0	0.5	0.4	5.5
31	**Leather and leather products**	–	**14**	**12**	**2.8**	**18.4**	**2.7**	**5.1**	**17.6**	**37.3**	**49.7**	**86.6**	**1.0**	**EE**	**(D)**
3111	Leather tanning and finishing	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
314	Footwear, except rubber	–	10	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3143	Men's footwear, except athletic	E1	4	4	1.4	9.0	1.4	2.5	8.5	19.9	20.6	40.3	(D)	CC	(D)
3144	Women's footwear, except athletic	–	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3149	Footwear, except rubber, n.e.c.	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
32	**Stone, clay, and glass products**	–	**206**	**79**	**17.9**	**208.2**	**15.1**	**28.3**	**163.9**	**439.0**	**280.7**	**716.8**	**(D)**	**20.5**	**339.2**
3211	Flat glass	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
322	Glass and glassware, pressed or blown	–	35	30	9.8	118.5	8.4	15.7	93.6	255.8	124.1	381.1	(D)	10.9	183.4
3221	Glass containers	–	5	5	3.2	46.9	2.8	5.6	39.8	94.2	57.6	154.1	(D)	4.2	70.0
3229	Pressed and blown glass, n.e.c.	–	30	25	6.6	71.6	5.5	10.1	53.8	161.6	66.5	227.0	(D)	6.7	113.4
3231	Products of purchased glass	–	23	7	1.1	11.0	1.0	2.0	9.2	17.5	21.5	38.9	(D)	0.8	11.2
3241	Cement, hydraulic	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
325	Structural clay products	–	8	5	0.6	7.3	0.5	0.9	5.7	15.1	10.8	25.7	(D)	CC	(D)
3251	Brick and structural clay tile	–	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3255	Clay refractories	–	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
326	Pottery and related products	–	13	6	2.6	23.2	2.3	3.9	19.2	37.3	18.9	53.9	(D)	2.9	23.5
3262	Vitreous china food utensils	–	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3264	Porcelain electrical supplies	–	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
327	Concrete, gypsum, and plaster products	E1	104	19	1.2	14.0	0.9	1.7	9.0	31.5	44.3	76.1	(D)	1.6	26.1
3271	Concrete block and brick	E1	21	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3273	Ready-mixed concrete	E1	57	12	0.7	8.4	0.5	1.0	5.7	20.2	31.1	51.2	(D)	0.8	14.4
329	Miscellaneous nonmetallic mineral products	–	16	8	1.3	17.9	1.1	2.1	13.7	52.2	30.9	82.0	(D)	1.0	22.1
3293	Gaskets, packing, and sealing devices	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3295	Minerals, ground or treated	–	10	3	0.2	3.5	0.2	0.4	2.7	9.0	3.6	12.5	(D)	0.2	4.2
3296	Mineral wool	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3297	Nonclay refractories	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
33	**Primary metal industries**	–	49	28	23.4	463.6	18.2	35.3	350.4	784.5	1 495.5	2 272.7	56.1	22.7	532.2
331	Blast furnace and basic steel products	–	15	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	15.7	399.9
3312	Blast furnaces and steel mills	–	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3313	Electrometallurgical products	–	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3317	Steel pipe and tubes	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
332	Iron and steel foundries	–	13	7	0.9	10.1	0.7	1.3	7.9	17.4	11.8	29.9	1.4	CC	(D)
3321	Gray iron foundries	–	11	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3322	Malleable iron foundries	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
333	Primary nonferrous metals	–	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3334	Primary aluminum	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
335	Nonferrous rolling and drawing	–	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3353	Aluminum sheet, plate, and foil	–	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3356	Nonferrous rolling and drawing, n.e.c.	–	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
336	Nonferrous foundries	–	9	2	0.2	2.6	0.2	0.4	1.9	4.2	3.3	7.5	(D)	(NA)	(NA)
3362	Brass, bronze, and copper foundries	–	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
34	**Fabricated metal products**	–	131	59	8.2	89.8	6.5	11.8	62.6	227.2	258.8	483.1	10.4	7.7	127.9
342	Cutlery, hand tools, and hardware	–	7	5	1.6	16.0	1.2	2.0	10.9	46.2	24.8	74.7	(D)	1.9	36.3
3423	Hand and edge tools, n.e.c.	–	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3429	Hardware, n.e.c.	–	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
343	Plumbing and heating, except electric	–	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3432	Plumbing fittings and brass goods	–	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
344	Fabricated structural metal products	–	58	26	2.0	25.7	1.5	2.8	18.0	59.8	96.6	158.2	3.4	2.2	38.2
3441	Fabricated structural metal	–	18	11	0.8	8.5	0.6	1.1	5.6	19.0	27.9	48.4	1.4	0.7	12.3
3443	Fabricated plate work (boiler shops)	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3444	Sheet metal work	–	19	9	0.8	10.7	0.6	1.0	7.5	29.7	56.1	86.2	0.6	CC	(D)
346	Metal forgings and stampings	–	12	10	1.8	18.2	1.5	2.6	13.2	47.2	51.2	91.6	1.4	0.9	11.1
3465	Automotive stampings	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3466	Crowns and closures	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3469	Metal stampings, n.e.c.	–	8	6	0.8	7.2	0.6	1.1	4.9	13.1	14.8	27.6	0.6	CC	(D)
347	Metal services, n.e.c.	–	11	1	0.2	2.0	0.2	0.3	1.5	4.0	2.5	6.5	(D)	0.2	2.2
3471	Plating and polishing	–	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
348	Ordnance and accessories, n.e.c.	–	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	28	10	1.5	14.2	1.2	2.2	10.4	40.6	44.8	83.6	2.9	EE	(D)
3494	Valves and pipe fittings	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3498	Fabricated pipe and fittings	–	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3499	Fabricated metal products, n.e.c.	–	17	4	0.6	6.3	0.5	1.0	4.8	23.2	26.0	48.9	1.5	CC	(D)
35	**Machinery, except electrical**	E1	227	59	6.4	83.4	4.7	9.2	53.5	185.5	180.6	357.1	16.0	4.9	79.9
351	Engines and turbines	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3519	Internal combustion engines, n.e.c.	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
353	Construction and related machinery	–	67	24	3.7	48.6	2.6	5.1	29.8	119.5	130.6	242.6	11.2	2.1	43.6
3531	Construction machinery	E1	7	2	0.2	3.2	0.2	0.4	2.1	7.5	9.3	14.8	0.4	(NA)	(NA)
3532	Mining machinery	–	53	19	2.8	36.4	2.1	4.1	23.4	90.1	79.2	162.8	10.5	1.9	40.7
3533	Oil field machinery	–	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3535	Conveyors and conveying equipment	–	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
354	Metalworking machinery	E3	16	2	0.2	2.6	0.2	0.4	2.1	4.9	3.7	8.6	0.4	CC	(D)
356	General industrial machinery	E4	15	6	0.3	3.5	0.2	0.4	2.1	6.4	5.5	11.8	0.8	BB	(D)
358	Refrigeration and service machinery	–	11	3	0.5	6.1	0.4	0.8	3.8	14.5	14.4	28.4	(D)	CC	(D)
3581	Automatic merchandising machines	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
359	Miscellaneous machinery, except electrical	E4	111	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	18.1
3599	Machinery, except electrical, n.e.c.	E4	111	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	18.1

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
36	**Electric and electronic equipment**	-	26	15	4.6	58.8	3.8	7.4	44.8	138.8	135.8	273.1	7.4	5.2	111.1
361	Electric distributing equipment	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3612	Transformers	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
362	Electrical industrial apparatus	-	9	5	1.0	15.2	0.8	1.5	11.7	33.6	39.0	74.0	(D)	1.7	29.6
3623	Welding apparatus, electric	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3624	Carbon and graphite products	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
364	Electric lighting and wiring equipment	-	4	4	2.7	33.1	2.3	4.5	26.7	87.9	78.5	162.9	4.4	FF	(D)
3641	Electric lamps	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3644	Noncurrent-carrying wiring devices	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
366	Communication equipment	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3662	Radio and TV communication equipment	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
37	**Transportation equipment**	-	28	11	3.7	56.0	3.0	5.9	44.3	107.7	174.7	283.1	(D)	2.5	57.8
371	Motor vehicles and equipment	-	11	3	0.8	14.3	0.7	1.6	11.4	27.5	38.8	66.9	(D)	EE	(D)
3714	Motor vehicle parts and accessories	-	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
372	Aircraft and parts	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3728	Aircraft equipment, n.e.c.	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3743	Railroad equipment	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
379	Miscellaneous transportation equipment	-	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3795	Tanks and tank components	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
38	**Instruments and related products**	-	18	8	0.9	10.6	0.6	1.1	8.0	69.0	28.6	96.3	(D)	0.8	49.3
382	Measuring and controlling devices	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3823	Process control instruments	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3861	Photographic equipment and supplies	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
39	**Miscellaneous manufacturing industries**	-	48	9	1.2	10.5	0.9	1.6	6.9	32.2	23.7	55.9	1.0	1.8	25.9
394	Toys and sporting goods	-	13	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3944	Games, toys, and children's vehicles	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
399	Miscellaneous manufactures	E2	30	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3995	Burial caskets	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
–	**Administrative and auxiliary**	-	33	12	2.7	52.1	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Charleston SMSA	-	205	66	15.7	245.4	10.9	21.6	156.7	725.7	932.4	1 647.8	125.8	16.2	603.9
20	Food and kindred products	-	14	9	1.0	12.5	0.5	1.1	6.0	29.9	48.5	78.3	0.9	(NA)	(NA)
24	Lumber and wood products	E8	14	3	0.5	3.5	0.4	0.7	2.4	9.9	13.6	21.4	(D)	0.4	3.1
27	Printing and publishing	-	29	4	0.8	8.7	0.4	0.7	4.2	20.3	7.1	27.4	1.0	0.6	10.1
28	Chemicals and allied products	-	22	13	8.6	150.7	6.6	13.4	108.8	579.5	729.4	1 303.2	111.6	9.3	511.4
286	Industrial organic chemicals	-	8	8	7.4	134.1	5.5	11.2	95.9	544.2	664.7	1 203.1	108.5	8.0	482.2
32	Stone, clay, and glass products	E1	21	8	0.9	11.7	0.7	1.4	8.7	18.0	20.7	39.5	(D)	1.7	32.3
34	Fabricated metal products	-	23	13	1.6	19.5	1.3	2.4	14.4	34.9	52.2	86.9	2.7	1.3	20.8
344	Fabricated structural metal products	-	11	6	0.6	7.1	0.4	0.9	5.1	11.3	20.5	32.1	1.6	0.5	9.9
35	Machinery, except electrical	-	30	8	0.8	12.4	0.6	1.2	7.9	21.3	26.6	45.3	1.5	(NA)	(NA)
	Huntington-Ashland, W. Va.-Ky.-Ohio, SMSA	-	339	125	29.6	438.8	20.9	40.9	288.1	754.3	1 982.8	2 728.9	233.7	25.7	530.1
20	Food and kindred products	-	21	12	0.9	9.4	0.4	0.9	4.4	22.0	47.6	69.2	(D)	0.8	15.7
24	Lumber and wood products	E2	42	4	0.3	2.7	0.3	0.6	2.3	5.5	7.7	13.4	0.7	0.6	7.1
25	Furniture and fixtures	E1	13	5	0.3	2.6	0.2	0.5	1.6	4.8	7.0	11.8	0.1	0.4	3.6
251	Household furniture	E1	10	4	0.3	1.9	0.2	0.4	1.2	3.7	6.3	10.0	(D)	(NA)	(NA)
27	Printing and publishing	-	38	4	0.7	7.4	0.4	0.8	4.4	18.3	6.6	24.9	1.3	0.7	10.3
2711	Newspapers	-	14	3	0.5	5.7	0.3	0.5	3.2	13.3	3.4	16.8	0.6	0.6	8.3
28	Chemicals and allied products	-	18	9	1.8	28.7	1.3	2.7	19.0	92.7	138.3	226.5	(D)	1.5	48.0
286	Industrial organic chemicals	-	4	3	0.6	9.1	0.4	0.9	6.2	24.0	32.6	54.8	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	44	18	3.3	44.1	2.8	6.4	35.8	93.6	53.9	147.5	5.4	3.3	59.7
3229	Pressed and blown glass, n.e.c.	-	6	5	0.4	3.3	0.3	0.5	2.3	4.9	2.2	7.1	0.5	(NA)	(NA)
325	Structural clay products	-	7	6	0.3	4.3	0.3	1.4	3.5	13.1	11.5	24.9	0.5	0.3	4.5
329	Miscellaneous nonmetallic mineral products	-	4	3	0.6	7.3	0.5	1.0	5.5	17.9	8.1	25.6	(D)	0.5	9.5
33	Primary metal industries	-	12	7	10.2	179.0	8.0	15.2	134.9	300.9	686.6	992.5	41.1	9.6	242.6
34	Fabricated metal products	E1	29	13	1.2	11.3	0.9	1.8	7.6	23.4	21.6	44.6	1.7	1.0	11.7
344	Fabricated structural metal products	E1	16	9	0.8	7.0	0.6	1.0	4.6	12.8	13.9	26.7	0.8	0.5	7.5
35	Machinery, except electrical	E1	43	15	1.9	23.0	1.3	2.3	14.7	47.3	46.7	88.6	2.3	1.0	12.1
353	Construction and related machinery	-	14	9	1.5	17.5	0.9	1.6	10.9	37.1	42.0	73.7	1.6	0.8	8.6
359	Miscellaneous machinery, except electrical	E5	22	5	0.4	4.8	0.3	0.6	3.4	8.8	4.0	12.7	0.7	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E5	22	5	0.4	4.8	0.3	0.6	3.4	8.8	4.0	12.7	0.7	(NA)	(NA)
	Parkersburg-Marietta, W. Va.-Ohio, SMSA	-	182	63	15.8	222.4	11.2	21.7	139.7	724.9	779.3	1 479.2	85.3	18.0	482.2
24	Lumber and wood products	E1	31	2	0.3	2.3	0.3	0.5	1.8	4.8	5.6	10.4	0.8	(NA)	(NA)
27	Printing and publishing	-	18	4	0.4	4.3	0.2	0.4	2.2	9.8	3.5	13.4	0.3	0.4	6.4
28	Chemicals and allied products	-	12	8	4.5	81.1	3.0	6.2	46.8	427.4	404.8	808.4	64.9	6.6	265.1
32	Stone, clay, and glass products	-	27	10	2.7	35.7	2.2	4.3	27.6	80.4	40.8	121.2	4.0	2.6	49.6
322	Glass and glassware, pressed or blown	-	4	4	1.7	21.8	1.4	2.7	16.7	49.5	17.9	67.8	1.9	1.6	31.4
34	Fabricated metal products	-	19	11	2.0	24.3	1.3	2.3	14.8	60.1	70.6	133.4	0.8	2.1	42.2
344	Fabricated structural metal products	-	12	6	0.4	5.0	0.3	0.5	3.2	11.0	8.0	18.8	0.2	0.5	8.2
3444	Sheet metal work	-	4	3	0.3	3.2	0.2	0.3	2.1	5.7	2.9	8.5	(D)	0.4	4.5
	Steubenville-Weirton, Ohio-W. Va., SMSA	-	138	67	26.7	497.6	21.2	41.0	382.6	955.0	1 643.9	2 601.6	67.9	29.0	705.7
26	Paper and allied products	-	10	7	0.6	6.8	0.4	0.8	4.7	14.1	20.0	34.3	2.4	(NA)	(NA)
264	Miscellaneous converted paper products	-	6	4	0.3	3.5	0.2	0.5	2.4	7.9	11.0	18.9	(D)	(NA)	(NA)
28	Chemicals and allied products	-	6	4	0.4	6.9	0.3	0.7	4.2	29.7	49.7	79.0	(D)	0.5	17.3
32	Stone, clay, and glass products	-	27	17	3.5	34.6	3.0	5.3	28.0	61.3	31.9	90.9	6.2	3.8	41.2
3255	Clay refractories	-	7	5	0.5	7.2	0.4	0.9	5.4	14.7	10.0	24.3	(D)	(NA)	(NA)
34	Fabricated metal products	-	17	11	1.4	19.3	1.1	2.1	13.5	65.0	109.8	175.6	2.2	1 7	34.0
346	Metal forgings and stampings	-	4	2	0.5	6.4	0.4	0.7	4.4	11.0	13.5	24.6	0.4	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Wheeling, W. Va.-Ohio, SMSA	-	**156**	**68**	**13.0**	**173.5**	**9.8**	**17.9**	**117.2**	**427.3**	**552.0**	**978.6**	**40.3**	**13.3**	**202.8**
20	Food and kindred products	-	20	10	0.9	11.0	0.5	1.0	4.9	42.7	59.8	102.3	3.7	1.3	23.3
202	Dairy products	-	8	5	0.4	4.8	0.1	0.3	1.4	20.3	36.7	56.9	(D)	0.4	6.8
23	Apparel and other textile products	E6	7	3	0.7	3.9	0.6	1.0	3.4	5.0	0.6	5.6	(D)	0.7	3.7
27	Printing and publishing	-	23	4	0.4	4.3	0.2	0.4	1.4	9.7	3.1	12.7	0.4	0.5	7.1
28	Chemicals and allied products	-	10	4	1.7	32.9	1.1	2.2	20.4	92.7	122.3	220.8	(D)	0.7	26.7
32	Stone, clay, and glass products	-	15	6	1.1	12.5	0.8	1.5	8.6	24.5	10.8	34.9	1.6	1.2	12.8
33	Primary metal industries	-	11	7	1.4	21.7	1.1	2.0	17.1	47.5	50.0	96.8	1.4	(NA)	(NA)
34	Fabricated metal products	-	19	15	3.3	42.9	2.7	4.7	32.4	110.0	193.8	298.6	4.3	2.6	34.2
349	Miscellaneous fabricated metal products	-	3	3	1.2	11.8	1.0	1.6	8.7	26.8	25.8	52.1	0.9	0.9	14.3

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Berkeley County	-	**33**	**18**	**3.6**	**41.3**	**2.7**	**5.4**	**27.1**	**117.7**	**96.3**	**212.1**	**4.9**	**3.3**	**83.4**
20	Food and kindred products	-	4	3	0.6	6.7	0.4	1.1	4.1	19.0	26.2	45.2	(D)	0.6	12.5
	Cabell County	-	**150**	**57**	**13.1**	**179.6**	**9.9**	**19.4**	**125.7**	**329.2**	**616.4**	**951.2**	**(D)**	**12.1**	**209.1**
	Fayette County	-	**39**	**7**	**1.6**	**22.2**	**1.2**	**2.4**	**15.6**	**37.4**	**57.8**	**89.8**	**2.3**	**(D)**	**(D)**
	Greenbrier County	-	**42**	**10**	**1.7**	**14.5**	**1.4**	**2.4**	**9.6**	**31.8**	**30.1**	**62.4**	**1.3**	**0.8**	**12.4**
	Hancock County	-	**33**	**19**	**15.4**	**301.4**	**12.4**	**23.9**	**232.6**	**435.8**	**751.6**	**1 191.5**	**29.2**	**15.4**	**375.1**
	Hardy County	-	**19**	**4**	**1.0**	**7.1**	**0.9**	**1.7**	**5.8**	**20.9**	**27.5**	**48.2**	**(D)**	**1.5**	**14.1**
	Harrison County	-	**88**	**24**	**4.6**	**53.7**	**3.6**	**6.8**	**39.6**	**106.5**	**135.5**	**242.9**	**6.4**	**5.7**	**96.9**
32	Stone, clay, and glass products	-	14	8	2.5	25.8	2.0	3.9	20.7	41.0	37.0	77.4	(D)	3.5	50.2
3231	Products of purchased glass	-	4	4	0.7	6.3	0.6	1.2	5.2	6.0	11.6	17.3	(D)	(NA)	(NA)
35	Machinery, except electrical	-	16	6	0.6	7.5	0.5	0.9	5.0	22.8	36.4	60.1	(D)	(NA)	(NA)
	Jefferson County	-	**25**	**8**	**1.2**	**13.2**	**1.0**	**1.7**	**9.3**	**79.3**	**43.3**	**121.2**	**3.3**	**1.5**	**18.3**
	Kanawha County	-	**184**	**60**	**14.3**	**227.0**	**9.7**	**19.2**	**141.9**	**697.9**	**875.2**	**1 562.8**	**123.4**	**14.7**	**577.4**
24	Lumber and wood products	E8	14	3	0.5	3.5	0.4	0.7	2.4	9.9	13.6	21.4	(D)	(NA)	(NA)
286	Industrial organic chemicals	-	8	8	7.4	134.1	5.5	11.2	95.9	544.2	664.7	1 203.1	108.5	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Lewis County	-	**28**	**5**	**1.0**	**8.0**	**0.9**	**1.9**	**6.6**	**13.8**	**7.2**	**21.1**	**2.3**	**1.1**	**8.6**
32	Stone, clay, and glass products	-	11	2	0.8	6.8	0.8	1.6	5.6	10.7	4.1	14.9	(D)	0.9	7.0
	Logan County	-	**32**	**12**	**0.6**	**5.7**	**0.5**	**0.9**	**3.6**	**11.1**	**13.2**	**24.1**	**2.5**	**1.0**	**8.2**
	Marion County	-	**78**	**26**	**5.5**	**67.4**	**4.3**	**8.2**	**50.2**	**146.5**	**137.5**	**284.6**	**10.8**	**5.7**	**103.4**
35	Machinery, except electrical	E1	24	9	1.3	15.8	0.8	1.6	8.8	29.2	27.0	56.8	(D)	0.9	11.3
	Marshall County	-	**26**	**14**	**4.6**	**68.7**	**3.3**	**6.4**	**45.6**	**182.0**	**254.9**	**440.5**	**30.8**	**4.1**	**79.6**
	Mason County	-	**19**	**9**	**1.5**	**19.6**	**1.1**	**2.2**	**14.0**	**49.3**	**106.0**	**153.7**	**5.8**	**1.5**	**39.9**
28	Chemicals and allied products	-	4	3	0.8	10.3	0.5	1.0	6.8	33.5	73.2	103.8	(D)	(NA)	(NA)
	Mercer County	-	**71**	**19**	**2.1**	**26.3**	**1.5**	**3.1**	**16.6**	**67.4**	**49.0**	**113.1**	**7.4**	**2.6**	**39.1**
35	Machinery, except electrical	-	15	8	0.7	9.8	0.5	1.2	6.8	26.7	12.2	35.1	(D)	(NA)	(NA)
353	Construction and related machinery	-	6	3	0.5	7.2	0.4	0.8	5.0	22.2	9.6	28.1	(D)	(NA)	(NA)
3532	Mining machinery	-	6	3	0.5	7.2	0.4	0.8	5.0	22.2	9.6	28.1	(D)	(NA)	(NA)
	Mineral County	-	**31**	**7**	**1.2**	**16.7**	**0.6**	**1.1**	**5.4**	**16.8**	**14.5**	**31.6**	**1.5**	**1.3**	**4.9**
	Monongalia County	-	**69**	**16**	**2.8**	**27.3**	**2.2**	**4.1**	**17.6**	**42.2**	**51.5**	**92.6**	**4.6**	**2.8**	**35.1**
32	Stone, clay, and glass products	-	19	7	0.8	6.5	0.7	1.1	4.8	9.9	7.4	16.8	(D)	0.7	8.1
322	Glass and glassware, pressed or blown	-	5	5	0.7	5.4	0.6	1.0	4.1	7.8	4.4	11.7	(D)	0.6	6.5
3229	Pressed and blown glass, n.e.c.	-	5	5	0.7	5.4	0.6	1.0	4.1	7.8	4.4	11.7	(D)	(NA)	(NA)
	Nicholas County	-	**38**	**10**	**0.9**	**8.2**	**0.7**	**1.3**	**5.2**	**19.9**	**13.4**	**34.2**	**0.6**	**1.3**	**13.8**
	Pendleton County	-	**11**	**5**	**0.7**	**4.0**	**0.6**	**1.1**	**3.7**	**9.1**	**10.1**	**19.1**	**0.4**	**0.5**	**2.5**
	Pocahontas County	-	**19**	**7**	**0.5**	**4.1**	**0.5**	**0.8**	**3.7**	**7.7**	**19.7**	**27.2**	**1.0**	**0.4**	**4.5**
	Preston County	-	**34**	**9**	**1.0**	**8.7**	**0.9**	**1.7**	**7.4**	**22.1**	**16.9**	**37.7**	**2.0**	**1.1**	**12.4**
	Putnam County	-	**21**	**6**	**1.4**	**18.4**	**1.2**	**2.4**	**14.8**	**27.7**	**57.2**	**85.0**	**2.4**	**1.5**	**26.5**
	Raleigh County	-	**54**	**22**	**1.4**	**16.8**	**0.9**	**1.9**	**9.5**	**43.9**	**55.1**	**96.7**	**2.6**	**1.4**	**56.9**
35	Machinery, except electrical	-	14	4	0.5	6.6	0.3	0.6	3.7	19.3	24.0	40.6	(D)	(NA)	(NA)
353	Construction and related machinery	-	9	3	0.5	6.2	0.3	0.6	3.4	19.0	23.2	39.6	0.3	(NA)	(NA)
	Randolph County	-	**48**	**14**	**1.2**	**8.2**	**1.0**	**1.8**	**6.4**	**17.9**	**18.6**	**36.0**	**(D)**	**1.6**	**14.3**
	Ritchie County	-	**20**	**7**	**0.7**	**5.3**	**0.7**	**1.2**	**4.1**	**10.8**	**11.6**	**22.4**	**(D)**	**0.6**	**3.9**
	Roane County	-	**23**	**6**	**1.1**	**8.4**	**0.8**	**1.5**	**6.1**	**24.9**	**27.4**	**50.3**	**1.0**	**0.8**	**8.5**
	Tucker County	-	**11**	**4**	**0.6**	**4.9**	**0.6**	**1.2**	**4.3**	**14.8**	**11.7**	**26.7**	**0.4**	**0.6**	**5.4**
	Upshur County	-	**36**	**8**	**1.0**	**10.7**	**0.8**	**1.6**	**8.2**	**31.4**	**31.7**	**61.8**	**1.6**	**1.0**	**23.5**
	Wayne County	-	**49**	**14**	**1.7**	**19.6**	**1.3**	**2.5**	**12.3**	**52.0**	**59.1**	**109.4**	**(D)**	**1.8**	**21.0**
	Wetzel County	-	**24**	**7**	**1.6**	**21.6**	**1.2**	**2.2**	**14.5**	**80.8**	**46.9**	**128.1**	**(D)**	**2.4**	**72.6**

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Beckley	-	30	14	1.0	10.9	0.6	1.1	5.4	28.7	41.2	67.1	1.9	0.6	9.4
	Buckhannon	-	27	7	1.0	10.3	0.8	1.6	7.9	30.6	30.6	60.0	1.5	1.0	23.3
	Clarksburg	-	55	18	3.8	45.5	3.0	5.6	33.0	89.2	97.4	187.5	5.6	5.1	74.3
3231	Products of purchased glass	-	4	4	0.7	6.3	0.6	1.2	5.2	6.0	11.6	17.3	(D)	(NA)	(NA)
	Elkins	-	26	9	0.8	5.4	0.7	1.2	4.2	13.1	10.0	22.8	0.7	1.3	10.4
	Fairmont	-	58	22	5.1	64.7	4.0	7.7	48.0	139.3	132.3	272.9	10.6	(D)	(D)
	Huntington	-	125	53	12.9	177.6	9.8	19.2	123.8	327.0	609.0	941.5	20.4	12.0	201.3
20	Food and kindred products	E1	11	7	0.6	6.1	0.3	0.7	2.8	12.1	31.5	43.3	1.6	0.6	9.2
28	Chemicals and allied products	-	8	3	0.5	6.8	0.4	0.7	4.3	17.2	16.6	32.2	1.7	(NA)	(NA)
34	Fabricated metal products	E2	18	8	0.7	7.0	0.5	1.0	4.5	14.6	14.5	28.9	1.3	(NA)	(NA)
35	Machinery, except electrical	E2	19	9	0.6	8.7	0.5	0.9	5.6	18.2	13.4	31.0	1.0	(NA)	(NA)
	Keyser	-	18	6	0.6	6.2	0.5	1.0	5.0	15.9	13.7	29.8	1.4	(NA)	(NA)
	Kingwood	-	9	3	0.5	4.7	0.5	1.0	4.1	6.5	7.1	13.6	(D)	0.6	6.0
	Morgantown	-	53	14	2.5	24.4	1.9	3.6	15.3	36.5	48.7	84.4	4.5	2.1	26.4
32	Stone, clay, and glass products	-	12	5	0.5	4.1	0.4	0.7	2.9	5.3	5.0	10.2	(D)	(NA)	(NA)
	Nitro	-	17	11	2.3	33.3	1.8	3.7	24.4	103.2	139.3	242.7	17.4	1.0	50.0
28	Chemicals and allied products	-	6	6	2.0	30.1	1.6	3.3	21.9	97.1	123.7	220.9	15.7	0.9	48.0
	Parkersburg	-	59	20	3.4	38.9	2.4	4.4	23.6	92.7	68.6	164.3	4.1	5.4	103.3
	Princeton	-	38	12	1.1	12.0	0.9	1.5	7.4	24.9	23.3	48.5	2.6	0.9	11.1
	Wellsburg	-	17	8	1.0	10.4	0.8	1.6	7.2	21.2	26.2	47.6	(D)	1.0	16.2
	Weston	-	14	4	0.9	7.4	0.9	1.8	6.1	10.8	5.1	15.9	(D)	0.9	7.2
	Wheeling	-	61	30	4.3	50.9	3.2	5.6	31.8	102.5	68.6	166.0	3.6	(D)	(D)
34	Fabricated metal products	-	7	6	1.2	11.7	1.1	1.7	8.8	30.9	20.1	45.8	0.6	(NA)	(NA)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
WEST VIRGINIA	1857	126	2	7	63	465	37	28	214	73	27	35	14	206	49	131	227	26	28	18	48	33
1 TO 4 EMPLOYEES	816	42	-	1	17	296	9	8	129	19	13	11	1	72	8	38	87	4	12	5	30	14
5 TO 9 EMPLOYEES	216	13	-	1	4	51	6	1	25	9	5	6	1	20	4	12	38	5	3	5	5	2
10 TO 19 EMPLOYEES	242	18	-	1	8	51	8	1	22	6	-	3	-	35	9	22	43	2	2	2	4	5
20 TO 49 EMPLOYEES	230	22	-	-	5	46	7	6	20	9	4	5	1	27	6	21	34	3	2	1	7	4
50 TO 99 EMPLOYEES	138	14	1	2	12	13	6	6	7	7	2	4	3	14	6	19	10	3	4	3	-	2
100 TO 249 EMPLOYEES	109	12	1	1	10	6	1	5	8	5	3	4	3	16	6	9	10	3	2	-	1	3
250 TO 499 EMPLOYEES	64	5	-	1	6	2	-	1	3	4	-	2	5	14	2	8	4	4	-	2	-	1
500 TO 999 EMPLOYEES	28	-	-	-	1	-	-	-	-	8	-	-	-	5	5	2	1	1	2	-	1	2
1000 TO 2499 EMPLOYEES	10	-	-	-	-	-	-	-	-	5	-	-	-	3	-	-	-	1	1	-	-	-
2500 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	1	-	-	-	-	3	-	-	-	-	-	-	-
BARBOUR COUNTY	18	-	-	-	1	13	2	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	16	-	-	-	-	12	2	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BERKELEY COUNTY	33	4	-	1	3	4	3	1	4	1	1	1	-	4	-	2	2	1	1	-	-	-
1 TO 19 EMPLOYEES	15	1	-	-	1	2	1	-	3	-	1	1	-	1	-	1	2	1	-	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	-	1	2	1	1	-	-	-	-	1	-	1	-	-	1	-	-	-
100 TO 249 EMPLOYEES	5	2	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	1	-	-	1	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-
BOONE COUNTY	12	-	-	-	-	4	-	-	1	-	-	2	-	3	-	-	1	1	-	-	-	-
1 TO 19 EMPLOYEES	11	-	-	-	-	4	-	-	1	-	-	2	-	3	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
BRAXTON COUNTY	17	-	-	-	-	6	1	-	2	-	1	-	1	1	-	2	2	-	-	-	1	-
1 TO 19 EMPLOYEES	13	-	-	-	-	5	-	-	2	-	-	-	-	1	-	2	2	-	-	-	1	-
20 TO 99 EMPLOYEES	4	-	-	-	-	1	1	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
BROOKE COUNTY	37	-	-	-	-	2	1	6	6	1	2	1	-	4	2	8	3	-	-	-	-	1
1 TO 19 EMPLOYEES	17	-	-	-	-	2	-	2	4	-	2	-	-	1	-	3	3	-	-	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	-	-	-	3	1	-	-	-	-	2	1	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	-	-	-	1	1	1	-	-	-	-	1	-	2	-	-	-	-	-	1
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	1	-	1	-	-	1	2	-	-	-	-	-	-
CABELL COUNTY	150	12	-	-	5	8	10	4	16	8	1	1	1	12	6	21	25	3	5	5	3	4
1 TO 19 EMPLOYEES	93	5	-	-	2	7	6	2	14	5	1	1	-	6	4	12	16	2	3	3	3	1
20 TO 99 EMPLOYEES	38	6	-	-	1	1	4	2	1	2	-	-	-	2	-	8	6	-	-	2	-	3
100 TO 249 EMPLOYEES	8	1	-	-	-	-	-	-	-	-	-	-	-	3	-	1	3	-	-	-	-	-
250 EMPLOYEES AND OVER	11	-	-	-	2	-	-	-	1	1	-	-	1	1	2	-	-	1	2	-	-	-
CALHOUN COUNTY	12	-	-	-	-	7	-	-	1	-	-	2	-	1	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	9	-	-	-	-	7	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
CLAY COUNTY	8	-	-	-	-	6	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	5	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
DODDRIDGE COUNTY	8	-	-	-	1	5	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	4	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FAYETTE COUNTY	39	-	-	-	1	12	-	2	5	-	1	1	-	2	1	1	11	2	-	-	-	-
1 TO 19 EMPLOYEES	32	-	-	-	1	11	-	2	4	-	1	1	-	1	-	1	9	1	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	1	1	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
GILMER COUNTY	14	-	-	-	-	7	-	-	2	-	-	3	1	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	13	-	-	-	-	7	-	-	2	-	-	3	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
GRANT COUNTY	23	1	-	-	-	16	-	-	2	-	-	1	-	2	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	19	-	-	-	-	15	-	-	1	-	-	-	-	2	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	4	1	-	-	-	1	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
GREENBRIER COUNTY	42	4	-	1	4	16	3	-	7	-	-	-	1	2	-	-	-	1	-	2	-	1
1 TO 19 EMPLOYEES	32	3	-	1	2	13	2	-	7	-	-	-	-	2	-	-	-	1	-	-	-	1
20 TO 99 EMPLOYEES	6	1	-	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
HAMPSHIRE COUNTY	14	-	-	-	1	6	-	-	2	-	-	-	2	1	-	-	-	-	1	-	-	1
1 TO 19 EMPLOYEES	9	-	-	-	-	5	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	1
20 TO 99 EMPLOYEES	4	-	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
HANCOCK COUNTY	33	-	-	-	-	1	1	1	6	2	3	-	-	11	1	3	2	1	1	-	-	-
1 TO 19 EMPLOYEES	14	-	-	-	-	1	-	-	5	-	1	-	-	3	-	1	2	-	1	-	-	-
20 TO 99 EMPLOYEES	11	-	-	-	-	-	1	-	1	2	1	-	-	4	-	2	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-
HAROY COUNTY	19	2	-	-	1	9	-	-	1	-	-	1	2	-	-	1	1	1	-	-	-	-
1 TO 19 EMPLOYEES	15	-	-	-	1	8	-	-	1	-	-	1	1	-	-	1	1	1	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARRISON COUNTY	88	15	-	-	1	6	-	-	12	2	1	1	-	14	4	5	16	2	3	1	4	1
1 TO 19 EMPLOYEES	64	12	-	-	1	6	-	-	11	2	1	1	-	6	2	4	10	1	2	1	3	1
20 TO 99 EMPLOYEES	15	3	-	-	-	-	-	-	-	-	-	-	-	3	2	1	5	-	1	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	1	1	-	-	-	-
JACKSON COUNTY	16	1	-	-	1	4	-	-	2	1	1	-	-	2	2	-	1	-	-	-	-	1
1 TO 19 EMPLOYEES	12	1	-	-	-	4	-	-	1	1	1	-	-	2	-	-	1	-	-	-	-	1
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
JEFFERSON COUNTY	25	-	-	-	1	5	-	1	4	4	-	-	-	2	-	3	2	-	-	1	1	1
1 TO 19 EMPLOYEES	17	-	-	-	1	4	-	-	2	4	-	-	-	2	-	1	1	-	-	-	1	1
20 TO 99 EMPLOYEES	4	-	-	-	-	1	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-
KANAWHA COUNTY	184	12	-	1	6	14	4	3	27	19	4	3	-	15	4	19	28	1	2	5	11	6
1 TO 19 EMPLOYEES	124	3	-	1	4	11	4	3	23	8	3	3	-	8	4	8	20	1	2	5	10	3
20 TO 99 EMPLOYEES	38	5	-	-	1	2	-	-	2	5	-	-	-	6	-	8	6	-	-	-	1	2
100 TO 249 EMPLOYEES	8	2	-	-	1	-	-	-	1	1	1	-	-	-	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	14	2	-	-	-	1	-	-	1	5	-	-	-	1	-	2	1	-	-	-	-	1
LEWIS COUNTY	28	-	-	1	1	11	-	1	1	-	-	-	-	11	1	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	23	-	-	-	1	11	-	-	1	-	-	-	-	9	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	1	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
LINCOLN COUNTY	14	-	-	1	2	6	-	-	1	-	-	-	-	3	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	13	-	-	1	1	6	-	-	1	-	-	-	-	3	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOGAN COUNTY	32	2	-	-	1	5	-	1	3	-	2	2	-	4	-	-	11	-	-	-	-	1
1 TO 19 EMPLOYEES	20	-	-	-	-	3	-	1	2	-	2	-	-	2	-	-	9	-	-	-	-	1
20 TO 99 EMPLOYEES	11	2	-	-	-	2	-	-	1	-	-	2	-	2	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC DOWELL COUNTY	10	-	-	-	1	5	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1
1 TO 19 EMPLOYEES	6	-	-	-	-	4	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
MARION COUNTY	78	6	-	-	2	6	1	1	6	1	-	1	-	8	5	7	24	2	4	3	-	1
1 TO 19 EMPLOYEES	52	4	-	-	1	6	1	-	3	1	-	-	-	6	2	7	15	-	4	2	-	-
20 TO 99 EMPLOYEES	16	2	-	-	-	-	-	1	2	-	-	1	-	-	1	-	7	1	-	1	-	-
100 TO 249 EMPLOYEES	6	-	-	-	1	-	-	-	1	-	-	-	-	1	1	-	1	-	-	-	-	1
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1	-	-	-	-
MARSHALL COUNTY	26	2	-	-	1	1	-	-	3	6	2	-	1	3	1	2	1	1	-	-	2	-
1 TO 19 EMPLOYEES	12	-	-	-	1	1	-	-	2	3	1	-	1	1	-	-	1	-	-	-	1	-
20 TO 99 EMPLOYEES	6	1	-	-	-	-	-	-	1	1	1	-	-	1	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	2	-	-	-	1	1	-	-	1	-	-	1	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
MASON COUNTY	19	1	-	-	1	3	-	-	1	4	1	1	-	2	2	1	1	-	1	-	-	-
1 TO 19 EMPLOYEES	10	-	-	-	-	2	-	-	1	1	1	1	-	2	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	5	1	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-
MERCER COUNTY	71	7	-	-	3	13	1	-	8	1	-	1	-	8	1	7	15	2	-	-	4	-
1 TO 19 EMPLOYEES	52	4	-	-	2	12	1	-	7	-	-	1	-	7	1	5	7	1	-	-	4	-
20 TO 99 EMPLOYEES	12	-	-	-	-	1	-	-	1	1	-	-	-	1	-	2	6	-	-	-	-	-
100 TO 249 EMPLOYEES	7	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-
MINERAL COUNTY	31	1	-	-	2	9	1	1	3	-	-	-	-	6	1	3	2	-	-	-	-	2
1 TO 19 EMPLOYEES	24	1	-	-	-	9	1	-	3	-	-	-	-	4	1	2	2	-	-	-	-	1
20 TO 99 EMPLOYEES	5	-	-	-	2	-	-	1	-	-	-	-	-	1	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
MINGO COUNTY	26	4	-	-	-	11	-	-	2	-	-	-	-	4	-	1	3	-	-	-	1	-
1 TO 19 EMPLOYEES	20	2	-	-	-	8	-	-	1	-	-	-	-	4	-	1	3	-	-	-	1	-
20 TO 99 EMPLOYEES	6	2	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
MONONGALIA COUNTY	69	2	-	-	2	11	1	-	6	2	-	-	-	19	1	7	13	1	-	-	2	2
1 TO 19 EMPLOYEES	53	1	-	-	-	11	1	-	5	-	-	-	-	12	-	5	13	1	-	-	2	2
20 TO 99 EMPLOYEES	6	1	-	-	1	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	8	-	-	-	-	-	-	-	1	2	-	-	-	4	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
MONROE COUNTY	12	-	-	-	1	9	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	11	-	-	-	1	9	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
MORGAN COUNTY	11	1	-	-	-	4	1	-	1	-	-	-	-	1	-	-	1	-	1	-	1	-
1 TO 19 EMPLOYEES	8	1	-	-	-	4	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-
NICHOLAS COUNTY	38	2	-	-	-	23	-	1	3	-	-	3	-	1	-	-	2	-	1	-	-	2
1 TO 19 EMPLOYEES	28	2	-	-	-	18	-	-	3	-	-	1	-	-	-	-	1	-	1	-	-	2
20 TO 99 EMPLOYEES	7	-	-	-	-	5	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OHIO COUNTY	66	9	2	-	4	-	-	2	13	2	-	-	-	2	7	8	9	-	2	1	3	2
1 TO 19 EMPLOYEES	34	4	-	-	3	-	-	-	11	1	-	-	-	1	3	1	4	-	1	1	3	1
20 TO 99 EMPLOYEES	22	4	1	-	1	-	-	2	1	1	-	-	-	1	3	4	4	-	-	-	-	-
100 TO 249 EMPLOYEES	5	1	1	-	-	-	-	-	1	-	-	-	-	-	1	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	1	-	-	1
PENDLETON COUNTY	11	-	-	-	1	7	-	-	1	-	-	-	1	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	5	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	1	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
PLEASANTS COUNTY	5	-	-	-	-	1	-	-	1	1	1	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	1	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
POCAHONTAS COUNTY	19	3	-	-	-	10	-	-	1	-	1	1	2	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	12	3	-	-	-	7	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	-	3	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
PRESTON COUNTY	34	1	-	-	1	17	-	-	4	2	-	1	1	1	3	2	1	-	-	-	-	-
1 TO 19 EMPLOYEES	25	1	-	-	-	14	-	-	4	2	-	1	-	1	1	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	1	2	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	1	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	-
PUTNAM COUNTY	21	2	-	-	-	-	-	-	2	3	-	-	-	6	-	4	2	2	-	-	-	-
1 TO 19 EMPLOYEES	15	2	-	-	-	-	-	-	2	1	-	-	-	5	-	2	2	1	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	-	1	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
RALEIGH COUNTY	54	7	-	-	1	7	1	-	5	-	1	2	-	6	-	2	14	3	1	-	4	-
1 TO 19 EMPLOYEES	32	3	-	-	1	4	1	-	2	-	-	2	-	4	-	1	10	-	1	-	3	-
20 TO 99 EMPLOYEES	18	3	-	-	-	3	-	-	2	-	1	-	-	2	-	1	2	3	-	-	1	-
100 TO 249 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
RANDOLPH COUNTY	48	3	-	-	1	31	2	-	4	-	-	1	-	1	2	-	2	-	-	-	1	-
1 TO 19 EMPLOYEES	34	3	-	-	-	24	-	-	3	-	-	-	-	1	-	-	2	-	-	-	1	-
20 TO 99 EMPLOYEES	10	-	-	-	-	6	2	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	1	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-
RITCHIE COUNTY	20	-	-	1	2	4	-	-	2	-	-	-	-	5	-	3	1	-	1	-	1	-
1 TO 19 EMPLOYEES	13	-	-	-	-	4	-	-	2	-	-	-	-	3	-	2	1	-	1	-	-	-
20 TO 99 EMPLOYEES	5	-	-	1	1	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROANE COUNTY	23	-	-	1	-	13	-	-	3	-	-	1	-	1	-	3	-	-	-	-	-	1
1 TO 19 EMPLOYEES	17	-	-	-	-	13	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-	1
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
SUMMERS COUNTY	14	1	-	-	1	6	-	-	1	-	-	-	-	3	-	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES	12	1	-	-	1	5	-	-	1	-	-	-	-	3	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
TAYLOR COUNTY	8	-	-	-	-	3	-	1	1	-	-	1	-	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TUCKER COUNTY	11	-	-	-	-	5	-	-	2	1	-	-	1	-	-	-	-	-	-	-	1	1
1 TO 19 EMPLOYEES	7	-	-	-	-	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	1
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-
TYLER COUNTY	14	1	-	-	-	5	-	-	1	1	1	-	-	2	-	3	-	-	-	-	-	-
1 TO 19 EMPLOYEES	12	1	-	-	-	5	-	-	1	-	1	-	-	2	-	2	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
UPSHUR COUNTY	36	3	-	-	3	18	-	-	6	-	-	1	-	2	-	-	1	-	-	-	2	-
1 TO 19 EMPLOYEES	28	3	-	-	1	16	-	-	4	-	-	-	-	1	-	-	1	-	-	-	2	-
20 TO 99 EMPLOYEES	5	-	-	-	1	2	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
WAYNE COUNTY	49	1	-	-	1	24	2	-	4	5	1	-	-	6	-	1	2	-	-	-	-	2
1 TO 19 EMPLOYEES	35	-	-	-	-	21	2	-	4	3	-	-	-	3	-	1	-	-	-	-	-	1
20 TO 99 EMPLOYEES	10	1	-	-	-	2	-	-	-	1	1	-	-	2	-	-	2	-	-	-	-	1
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-
WEBSTER COUNTY	21	-	-	-	-	16	-	-	2	-	-	-	-	1	1	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	16	-	-	-	-	11	-	-	2	-	-	-	-	1	1	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WETZEL COUNTY	24	-	-	-	-	7	-	1	2	2	1	-	-	5	1	-	2	-	-	-	3	-
1 TO 19 EMPLOYEES	17	-	-	-	-	7	-	-	2	1	1	-	-	1	1	-	2	-	-	-	2	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-
WIRT COUNTY	6	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
WOOD COUNTY	93	16	-	-	4	10	2	1	11	4	1	1	-	14	3	11	10	2	1	-	2	-
1 TO 19 EMPLOYEES	59	12	-	-	2	9	1	-	9	1	1	1	-	6	1	6	9	-	-	-	1	-
20 TO 99 EMPLOYEES	17	3	-	-	1	-	1	-	1	1	-	-	-	2	1	4	1	-	1	-	1	-
100 TO 249 EMPLOYEES	6	-	-	-	1	1	-	1	1	-	-	-	-	1	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	11	1	-	-	-	-	-	-	-	2	-	-	-	5	-	1	-	2	-	-	-	-
WYOMING COUNTY	23	-	-	-	1	8	-	-	2	-	-	-	-	1	-	-	9	-	-	-	-	2
1 TO 19 EMPLOYEES	18	-	-	-	1	4	-	-	2	-	-	-	-	1	-	-	8	-	-	-	-	2
20 TO 99 EMPLOYEES	5	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

Wisconsin

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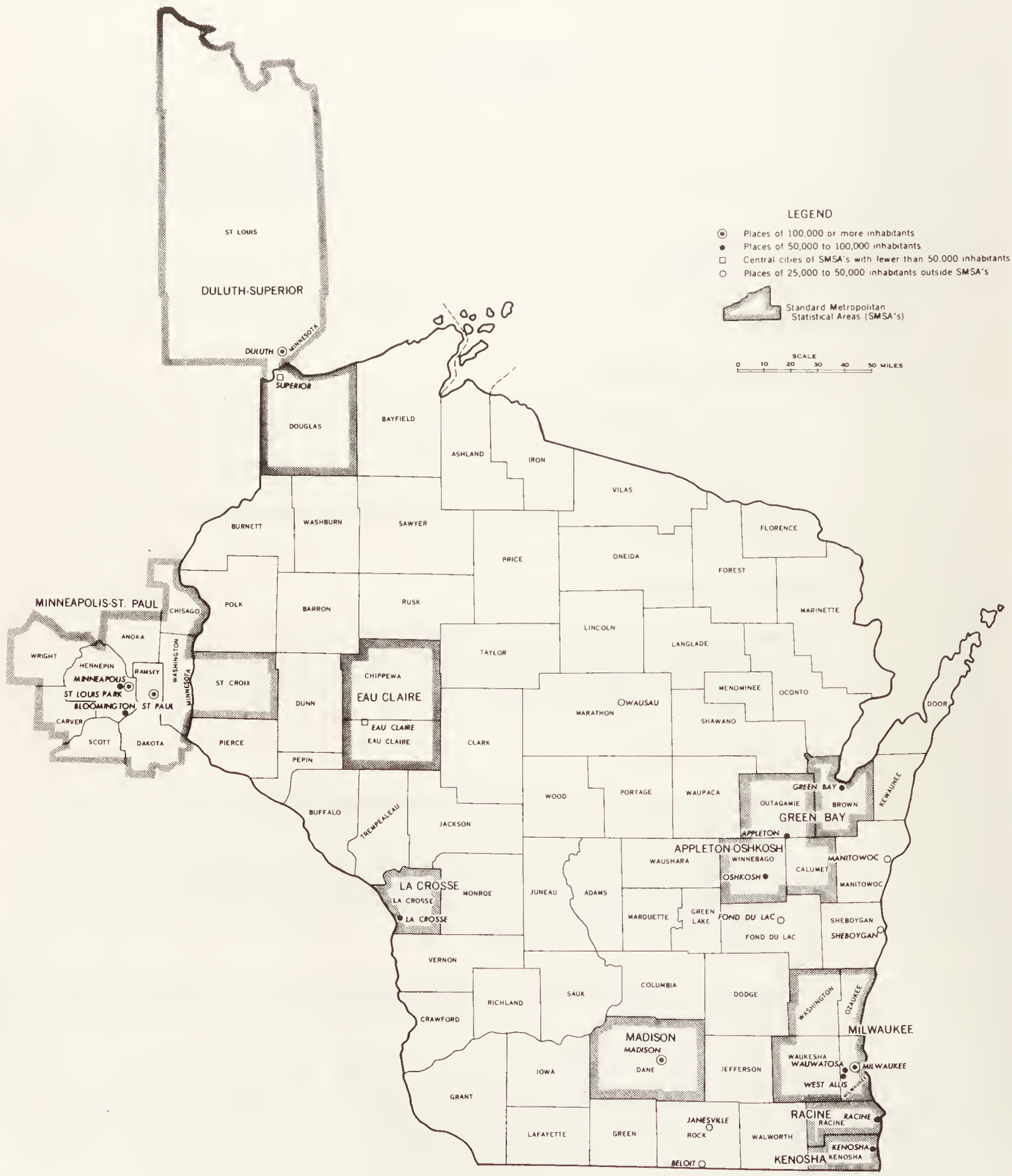
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EMPLOYMENT SIZE CLASS STATISTICS

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WISCONSIN


LEGEND
Places of 100,000 or more inhabitants
Places of 50,000 to 100,000 inhabitants
Central cities of SMSA's with fewer than 50,000 inhabitants
Places of 25,000 to 50,000 inhabitants outside SMSA's
Standard Metropolitan Statistical Areas (SMSA's)
SCALE
0 10 20 30 40 50 MILES
DULUTH-SUPERIOR
ST LOUIS
DULUTH
SUPERIOR
MINNESOTA
DOUGLAS
BAYFIELD
ASHLAND
IRON
VILAS
FLORENCE
FOREST
ONEIDA
PRICE
SAWYER
WASHBURN
BURNETT
MARINETTE
LINCOLN
LANGLADE
TAYLOR
RUSK
BARRON
POLK
MINNEAPOLIS-ST. PAUL
CHISAGO
ANOKA
WRIGHT
HENNEPIN
RAMSEY
MINNEAPOLIS
ST LOUIS PARK
BLOOMINGTON
ST PAUL
WASHINGTON
CARVER
SCOTT
DAKOTA
ST CROIX
DUNN
CHIPPEWA
EAU CLAIRE
EAU CLAIRE
EAU CLAIRE
PIERCE
PEPIN
CLARK
MARATHON
WAUSAU
MENOMINEE
OCONTO
SHAWANO
DOOR
WOOD
PORTAGE
WAUPACA
GREEN BAY
OUTAGAMIE
BROWN
KEWAUNEE
APPLETON
APPLETON-OSHKOSH
WAUSHARA
WINNEBAGO
OSHKOSH
CALUMET
MANITOWOC
MANITOWOC
BUFFALO
TREMPEALEAU
JACKSON
LA CROSSE
LA CROSSE
LA CROSSE
MONROE
JUNEAU
ADAMS
MARQUETTE
GREEN LAKE
FOND DU LAC
FOND DU LAC
SHEBOYGAN
SHEBOYGAN
VERNON
RICHLAND
SAUK
COLUMBIA
DODGE
WASHINGTON
OZAUKEE
MILWAUKEE
CRAWFORD
MADISON
MADISON
DANE
JEFFERSON
WAUKESHA
WAUWATOSA
MILWAUKEE
WEST ALLIS
IOWA
GRANT
LAFAYETTE
GREEN
JANESVILLE
ROCK
BELOIT
WALWORTH
RACINE
RACINE
RACINE
KENOSHA
KENOSHA
KENOSHA

SUMMARY OF FINDINGS

In 1977, 535.0 thousand persons were employed in Wisconsin's manufacturing establishments. This figure represented an increase of 7 percent from the 1972 figure of 500.5 thousand workers.

The total value added by manufacture for the State amounted to $16,606 million in 1977, an increase of approximately 76 percent from the 1972 figure of $9,443 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were machinery, except electrical; food and kindred products; fabricated metal products; and electrical and electronic equipment. They accounted for approximately 51 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 50 percent of the State's employment.

The most important counties in the State ranked by employment were Milwaukee, Waukesha, Racine, and Winnebago. They accounted for approximately 43 percent of the State's 1977 manufacturing employment. In 1972 these same counties accounted for approximately 45 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Wisconsin:						
1977	535.0	7,317.8	511.9	6,897.9	23.1	419.9
1972	500.5	4,722.3	484.3	4,517.7	16.2	204.6
1967	512.2	3,577.8	494.9	3,413.1	17.3	164.7
1963	461.8	2,781.1	448.2	2,664.8	13.6	116.3
STANDARD CONSOLIDATED STATISTICAL AREA						
Milwaukee-Racine:						
1977	231.3	3,428.3	219.2	3,194.4	12.1	233.9
1972	226.1	2,275.7	217.6	2,174.0	8.5	101.7
STANDARD METROPOLITAN STATISTICAL AREAS						
Appleton-Oshkosh:						
1977	42.9	582.2	40.8	543.3	2.1	38.9
1972	38.4	362.3	36.6	337.0	1.8	25.3
Duluth-Superior, Minn.-Wis.:						
1977	9.4	110.9	9.2	107.0	.2	3.9
1972	10.4	85.0	10.0	80.3	.4	4.7
1967	12.0	74.2	11.9	73.4	.1	.8
1963	11.5	60.6	11.5	60.3	(Z)	.3
Eau Claire:						
1977	8.7	114.4	(Z)	114.3	(Z)	.1
1972	5.2	61.0	(NA)	(NA)	(NA)	(NA)
Green Bay:						
1977	20.3	290.9	20.0	284.0	.3	6.9
1972	17.5	171.7	17.3	169.4	.2	2.3
1967	16.2	114.8	(D)	(D)	(D)	(D)
1963	13.5	81.7	(D)	(D)	(D)	(D)
Kenosha:						
1977	17.7	246.2	17.5	243.7	.2	2.5
1972	15.8	178.7	(D)	(D)	(D)	(D)
1967	16.3	117.4	16.3	117.4	-	-
1963	22.5	150.5	(D)	(D)	(D)	(D)
Lacrosse:						
1977	9.4	111.8	9.4	111.8	-	-
1972	8.4	69.5	8.4	69.5	-	-
Madison:						
1977	18.2	264.5	16.5	228.2	1.7	36.3
1972	16.2	163.7	14.6	139.4	1.6	24.3
1967	16.3	118.4	15.1	105.2	1.2	13.2
1963	13.5	83.1	12.4	75.6	1.0	7.5
Milwaukee:						
1977	204.1	3,042.5	195.3	2,872.9	8.8	169.6
1972	200.0	2,025.4	193.6	1,945.9	6.4	79.5
1967	216.5	1,628.8	207.6	1,544.7	8.9	84.1
1963	193.8	1,271.9	187.8	1,219.9	6.0	52.1
Minneapolis-St. Paul, Minn.-Wis.:						
1977	216.9	3,331.3	189.3	2,670.7	27.6	660.6
1972	199.0	2,048.0	173.9	1,718.3	25.1	329.7
1967	203.7	1,524.9	181.0	1,313.4	22.7	211.5
1963	163.8	1,056.0	149.6	940.8	14.2	115.1
Racine:						
1977	27.2	385.8	23.9	321.5	3.3	64.3
1972	25.8	250.3	23.7	228.1	2.1	22.2
1967	26.2	199.3	23.9	179.1	2.3	20.2
1963	22.2	147.2	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
WISCONSIN															
1977 CENSUS.	8 678	3 163	535.0	7 317.8	381.0	745.4	4 697.1	16 606.0	22 362.9	38 725.3	1 184.4	2.73	100	100	19 596.9
1976 ASM....	(NA)	(NA)	519.9	6 611.4	370.8	717.4	4 232.6	14 905.5	20 670.1	35 427.3	913.1	2.77	97	96	18 753.0
1975 ASM....	(NA)	(NA)	516.5	6 068.7	365.9	701.4	3 829.1	12 926.1	18 107.9	31 045.7	880.4	2.82	97	94	18 302.2
1974 ASM....	(NA)	(NA)	552.2	5 973.5	401.0	783.1	3 874.8	12 544.2	17 563.4	29 599.3	892.9	2.78	103	102	19 844.8
1973 ASM....	(NA)	(NA)	532.8	5 376.1	390.6	783.8	3 559.2	10 825.2	14 623.5	25 161.6	706.4	2.68	100	102	19 897.9
1972 CENSUS.	7 845	2 861	500.5	4 722.3	360.5	720.5	2 062.7	9 443.3	11 970.1	21 245.5	535.3	2.63	94	98	19 028.7
1971 ASM....	(NA)	(NA)	479.8	4 227.1	342.2	670.2	2 681.7	8 476.4	10 343.0	18 830.0	406.4	2.61	90	94	18 363.1
1970 ASM....	(NA)	(NA)	500.6	4 125.0	359.8	710.6	2 628.1	7 874.1	9 615.7	17 425.5	468.1	2.60	94	99	19 217.2
1969 ASM....	(NA)	(NA)	523.9	4 101.0	385.7	771.4	2 687.7	8 106.6	9 684.7	17 760.8	473.2	2.61	98	103	20 035.5
1968 ASM....	(NA)	(NA)	514.0	3 811.1	375.5	754.6	2 481.5	7 514.7	9 013.7	16 549.3	461.9	2.63	96	100	19 527.6
1967 CENSUS.	7 838	2 727	512.2	3 577.8	374.5	754.8	2 332.8	7 014.1	8 511.3	15 452.1	506.6	2.65	96	99	19 323.2
1966 ASM....	(NA)	(NA)	515.2	3 493.1	380.3	784.0	2 311.5	6 831.7	8 531.0	15 219.2	476.5	2.71	96	98	19 024.5
1965 ASM....	(NA)	(NA)	494.5	3 199.0	365.1	749.6	2 125.1	6 179.0	7 878.1	14 007.5	353.8	2.75	92	92	18 010.2
1964 ASM....	(NA)	(NA)	472.0	2 950.3	346.2	707.9	1 936.8	5 717.4	7 107.8	12 732.0	305.8	2.73	88	89	17 268.5
1963 CENSUS.	7 937	2 467	461.8	2 781.1	338.5	687.8	1 827.4	5 363.2	(NA)	(NA)	280.7	2.72	86	87	16 958.4
MILWAUKEE-RACINE SCSA															
1977 CENSUS.	3 264	1 288	231.3	3 428.3	156.2	302.8	2 094.8	7 389.5	7 034.5	14 297.3	444.7	1.18	100	100	19 596.9
1972 CENSUS.	2 998	1 173	226.1	2 275.7	153.6	305.1	1 405.2	4 286.4	3 865.4	8 093.7	218.5	1.19	98	98	19 028.7
APPLETON-OSHKOSH SMSA															
1977 CENSUS.	500	237	42.9	582.2	30.9	61.8	375.9	1 368.9	1 905.2	3 233.2	96.3	.22	100	100	19 596.9
1976 ASM....	(NA)	(NA)	41.9	522.8	30.2	59.0	340.3	1 138.9	1 674.9	2 802.1	93.4	.22	98	96	18 753.0
1975 ASM....	(NA)	(NA)	41.1	466.6	29.5	57.8	303.1	1 017.6	1 412.9	2 424.0	76.0	.22	96	94	18 302.2
1974 ASM....	(NA)	(NA)	44.1	462.4	32.7	66.0	315.4	1 049.5	1 460.7	2 470.7	65.3	.22	103	102	19 844.8
1973 ASM....	(NA)	(NA)	42.1	420.3	31.1	63.1	281.5	880.1	1 153.5	2 009.6	64.0	.21	98	102	19 897.9
1972 CENSUS.	472	210	38.4	362.3	28.4	58.3	240.2	723.8	923.8	1 640.9	58.7	.20	89	98	19 028.7
MILWAUKEE SMSA															
1977 CENSUS.	2 859	1 141	204.1	3 042.5	138.7	268.8	1 882.5	6 408.8	6 272.7	12 554.3	389.1	1.04	100	100	19 596.9
1976 ASM....	(NA)	(NA)	200.7	2 739.9	136.1	260.3	1 696.0	5 855.7	5 968.5	11 770.0	308.6	1.07	98	96	18 753.0
1975 ASM....	(NA)	(NA)	204.0	2 569.7	137.1	260.6	1 565.4	5 156.8	5 386.2	10 548.1	296.7	1.11	100	94	18 302.2
1974 ASM....	(NA)	(NA)	217.2	2 522.9	151.4	293.9	1 599.4	4 889.1	5 087.8	9 749.2	376.2	1.09	106	102	19 844.8
1973 ASM....	(NA)	(NA)	211.6	2 324.2	149.6	296.8	1 487.9	4 186.6	4 220.8	8 274.1	296.8	1.06	104	102	19 897.9
1972 CENSUS.	2 621	1 026	200.0	2 025.0	137.0	272.1	1 256.9	3 700.0	3 430.0	7 074.4	193.8	1.05	98	98	19 028.7
1971 ASM....	(NA)	(NA)	192.4	1 829.0	130.3	253.1	1 099.3	3 367.5	2 948.1	6 339.5	146.3	1.05	94	94	18 363.1
1970 ASM....	(NA)	(NA)	203.2	1 823.3	139.0	274.2	1 101.5	3 341.5	2 938.0	6 252.1	165.6	1.06	100	99	19 217.2
1969 ASM....	(NA)	(NA)	217.1	1 822.6	152.0	303.5	1 137.1	3 404.5	2 997.4	6 336.0	171.4	1.08	106	103	20 035.5
1968 ASM....	(NA)	(NA)	217.4	1 725.3	148.8	296.9	1 054.2	3 156.9	2 849.1	5 975.0	156.4	1.11	107	100	19 527.6
1967 CENSUS.	2 531	1 015	216.5	1 628.8	149.6	296.6	1 004.9	2 982.5	2 717.1	5 671.8	187.6	1.12	106	99	19 323.2
1966 ASM....	(NA)	(NA)	211.2	1 572.5	146.3	297.4	985.3	2 929.5	2 686.9	5 543.5	170.7	1.11	103	98	19 024.5
1965 ASM....	(NA)	(NA)	202.8	1 447.8	140.7	285.5	910.3	2 640.1	2 425.6	5 026.6	115.1	.1.13	99	92	18 010.2
1964 ASM....	(NA)	(NA)	195.5	1 332.4	134.4	271.9	830.0	2 423.1	2 126.8	4 512.6	111.7	1.13	96	89	17 268.5
1963 CENSUS.	2 405	877	193.8	1 271.9	133.3	266.5	784.1	2 237.2	(NA)	(NA)	96.4	1.14	95	87	16 958.4
MINNEAPOLIS-ST. PAUL, MINN.-WIS., SMSA															
1977 CENSUS.	3 861	1 349	216.9	3 331.3	127.4	245.6	1 562.4	6 408.0	7 407.6	13 645.1	353.3	1.11	100	100	19 596.9
1976 ASM....	(NA)	(NA)	196.7	2 712.8	118.1	229.0	1 377.7	5 565.6	6 570.0	12 032.6	287.4	1.05	91	96	18 753.0
1975 ASM....	(NA)	(NA)	214.4	2 725.9	117.7	224.7	1 267.9	4 927.1	5 930.5	11 004.9	244.6	1.17	99	94	18 302.2
1974 ASM....	(NA)	(NA)	223.5	2 571.1	132.6	255.9	1 300.0	5 224.8	5 729.2	10 739.6	271.5	1.13	103	102	19 844.8
1973 ASM....	(NA)	(NA)	215.4	2 283.3	127.1	244.7	1 152.1	4 530.3	4 699.6	9 084.9	179.6	1.08	99	102	19 897.9
1972 CENSUS.	3 214	1 233	199.0	2 048.0	118.4	230.9	1 012.7	3 734.8	3 943.0	7 632.1	171.5	1.05	92	98	19 028.7
1971 ASM....	(NA)	(NA)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	94	18 363.1
1970 ASM....	(NA)	(NA)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	99	19 217.2
1969 ASM....	(NA)	(NA)	221.9	1 855.1	132.9	269.1	940.3	3 485.1	3 596.7	7 042.8	164.1	1.11	102	103	20 035.5
1968 ASM....	(NA)	(NA)	208.3	1 656.1	129.3	262.8	866.7	3 233.6	3 165.0	6 363.2	164.7	1.07	96	100	19 527.6
1967 CENSUS.	2 696	1 093	203.7	1 524.9	124.7	250.0	784.2	2 819.4	2 885.3	5 625.1	144.3	1.05	94	99	19 323.2
1966 ASM....	(NA)	(NA)	186.1	1 348.3	116.6	236.2	721.1	2 548.4	2 640.3	5 117.4	128.6	.98	86	98	19 024.5
1965 ASM....	(NA)	(NA)	170.5	1 178.2	105.2	212.6	633.6	2 315.5	2 365.5	4 576.9	88.0	.95	79	92	18 010.2
1964 ASM....	(NA)	(NA)	169.4	1 145.5	103.3	207.7	595.3	2 117.9	2 221.3	4 324.9	103.0	.98	78	89	17 268.5
1963 CENSUS.	2 666	1 008	163.8	1 056.0	102.9	205.2	573.5	1 956.9	(NA)	(NA)	73.9	.97	76	87	16 958.4

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.

[1] In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

[2] Including central administrative offices and auxiliaries (for definition, see appendix B).

[3] Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, aee appendix A. For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Coat of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipmenta (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
				WISCONSIN					
1977 CENSUS	13 679	71	1 956	6.30	58	77	31 042	44	22.28
1976 ASM	12 717	71	1 935	5.90	58	77	28 670	44	20.78
1975 ASM	11 750	71	1 917	5.46	58	78	25 026	47	18.43
1974 ASM	10 818	73	1 953	4.95	59	80	22 717	48	16.02
1973 ASM	10 090	73	2 007	4.54	58	79	20 318	50	13.81
1972 CENSUS	9 435	72	1 999	2.86	56	79	18 868	50	13.11
1971 ASM	8 810	71	1 959	4.00	55	77	17 667	50	12.65
1970 ASM	8 240	72	1 975	3.70	55	79	15 729	52	11.08
1969 ASM	7 828	74	2 000	3 48	55	78	15 474	51	10.51
1968 ASM	7 415	73	2 010	3.29	54	77	14 620	51	9.96
1967 CENSUS	6 985	73	2 015	3.09	55	78	13 694	51	9.29
1966 ASM	6 780	74	2 062	2.95	56	79	13 260	51	8.71
1965 ASM	6 469	74	2 053	2.83	56	79	12 495	52	8.24
1964 ASM	6 251	73	2 045	2.74	56	79	12 113	52	8.08
1963 CENSUS	6 022	73	2 032	2.66	(NA)	(NA)	11 614	52	7.80
				MILWAUKEE-RACINE SCSA					
1977 CENSUS	14 823	68	1 938	6.92	49	73	31 948	46	24.40
1972 CENSUS	10 078	68	1 986	4.61	48	76	18 958	53	14.05
				APPLETON-OSHKOSH SMSA					
1977 CENSUS	13 560	72	1 998	6.08	59	77	31 881	43	22.14
1976 ASM	12 477	72	1 954	5.77	60	78	27 181	46	19.30
1975 ASM	11 353	72	1 959	5.24	58	78	24 759	46	17.61
1974 ASM	10 485	74	2 018	4.78	59	78	23 798	44	15.90
1973 ASM	9 983	74	2 029	4.46	57	78	20 905	48	13.95
1972 CENSUS	9 435	74	2 053	4.12	56	78	18 849	50	12.42
				MILWAUKEE SMSA					
1977 CENSUS	14 907	68	1 938	7.00	50	74	31 401	47	23.84
1976 ASM	13 651	68	1 913	6.52	51	74	29 176	47	22.50
1975 ASM	12 596	67	1 901	6.01	51	75	25 278	50	19.79
1974 ASM	11 616	68	1 941	5.44	52	78	22 510	52	16.64
1973 ASM	10 983	71	1 984	5.01	51	79	19 784	56	14.11
1972 CENSUS	10 125	69	1 986	4.62	48	77	18 500	55	13.60
1971 ASM	9 506	68	1 942	4 34	46	75	17 494	54	13.31
1970 ASM	8 973	68	1 973	4.02	47	76	16 444	55	12.19
1969 ASM	8 395	70	1 997	3.75	47	76	15 682	54	11.22
1968 ASM	7 936	68	1 995	3.55	48	77	14 521	55	10.63
1967 CENSUS	7 523	69	1 983	3.39	48	77	13 776	55	10.06
1966 ASM	7 446	69	2 033	3.31	48	76	13 871	54	9.85
1965 ASM	7 139	69	2 029	3.19	48	77	13 021	55	9.25
1964 ASM	6 815	69	2 023	3.05	47	77	12 394	55	8.91
1963 CENSUS	6 563	69	1 999	2.94	(NA)	(NA)	11 544	57	8.39
				MINNEAPOLIS-ST. PAUL, MINN.-WIS., SMSA					
1977 CENSUS	15 355	59	1 928	6.36	54	79	29 537	52	26.09
1976 ASM	13 792	60	1 939	6.02	55	77	28 295	49	24.30
1975 ASM	12 714	55	1 909	5.64	54	79	22 981	55	21.93
1974 ASM	11 504	59	1 930	5.08	53	77	23 377	49	20.42
1973 ASM	10 600	59	1 925	4.71	52	77	21 032	50	18.51
1972 CENSUS	10 291	59	1 950	4.39	52	78	18 768	55	16.17
1971 ASM	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1970 ASM	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1969 ASM	8 360	60	2 025	3.49	51	77	15 706	53	12.95
1968 ASM	7 951	62	2 032	3.30	50	76	15 524	51	12.30
1967 CENSUS	7 486	61	2 005	3.14	51	78	13 841	54	11.28
1966 ASM	7 245	63	2 026	3.05	52	78	13 694	53	10.79
1965 ASM	6 910	62	2 021	2.98	52	77	13 581	51	10.89
1964 ASM	6 762	61	2 011	2.87	51	78	12 502	54	10.20
1963 CENSUS	6 447	63	1 994	2.79	(NA)	(NA)	11 947	54	9.54

Note: For qualificationa to data, aee footnotea on table 2a.
(D) Withheld to avoid discloaing operationa of individual companies. (NA) Not available. (S) Withheld becauae eatimate did not meet publication standards.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments[1]	number	8 678	7 845
With 1 to 19 employees	do	5 515	4 984
With 20 to 99 employees	do	2 116	1 877
With 100 employees or more	do	1 047	984
All employees, average for year[1]	1,000	535.0	500.5
Payroll for year, all employees[1]	mil. dollars	7 317.8	4 722.3
Production workers:			
Average for year	1,000	381.0	360.5
March	do	367.8	342.4
May	do	374.9	352.0
August	do	395.2	377.0
November	do	385.3	370.6
Hours	millions	745.4	720.5
January to March	do	178.8	172.2
April to June	do	186.2	179.7
July to September	do	191.3	183.1
October to December	do	189.1	185.4
Wages	mil. dollars	4 697.1	3 062.7
Cost of materials, etc.[2]	do	22 382.9	11 970.1
Materials, parts, containers, etc., consumed	do	20 045.7	10 694.6
Resales	do	1 310.7	824.7
Fuels consumed	do	388.9	149.6
Purchased electric energy	do	299.8	142.8
Contract work	do	317.8	158.4
Value of shipments, including resales[2]	do	38 725.3	21 245.5
Value of resales	do	1 580.2	1 038.0
Value added by manufacture	do	16 606.0	9 443.3
Manufacturers' inventories:			
Beginning of year	do	4 842.3	2 696.8
Finished products	do	1 600.1	964.0
Work in process	do	1 371.3	779.2
Materials, supplies, fuel, etc.	do	1 871.0	953.7
End of year	do	5 238.5	2 888.6
Finished products	do	1 705.3	1 017.6
Work in process	do	1 542.1	855.9
Materials, supplies, fuel, etc.	do	1 991.1	1 015.1
Capital expenditures for plant and equipment	do	1 268.1	562.6
New capital expenditures	do	1 184.4	535.3
New buildings and other structures	do	211.4	115.1
New machinery and equipment	do	973.1	420.2
Used capital expenditures	do	83.7	27.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
[1]Including central administrative offices and auxiliaries (for definition, see appendix B).
[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:		
Total:		
Beginning of year	9,302.8	1
New capital expenditures	1,159.9	2
Used capital expenditures	96.1	8
Retirements	299.7	5
End of year	10,259.1	1
Buildings and other structures:		
Beginning of year	2,672.2	1
New capital expenditures	205.6	3
Used capital expenditures	(28.9)	20
Retirements	45.4	13
End of year	2,861.4	1
Machinery and equipment:		
Beginning of year	6,630.6	1
New capital expenditures	954.3	2
Automobiles, trucks, etc., for highway use	132.2	(NA)
Computers and peripheral data processing equip.	141.1	(NA)
All other	(S)	(NA)
New machinery and equipment, n.s.k.	(S)	(NA)
Used capital expenditures	67.2	7
Retirements	254.6	4
End of year	7,397.5	1

Item	Amount (million dollars)	Standard error of estimate (percent)
Rental payments:		
Total	171.9	2
Buildings and other structures	66.2	4
Machinery and equipment	105.7	2
Depreciation charges during 1977:		
Total	617.1	1
Buildings and other structures	113.4	3
Machinery and equipment	503.7	1
Supplemental labor costs:		
Total	1,449.5	1
Legal costs	549.9	1
Voluntary costs	899.6	1
Purchased services:		
Cost of purchased services for the repair of--		
Buildings and other structures	(66.8)	30
Response coverage ratio (percent)	61	(X)
Machinery	(348.1)	(A)
Response coverage ratio (percent)	63	(X)
Cost of purchased communication services	(118.3)	(A)
Response coverage ratio (percent)	61	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in parentheses have standard errors of 100 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E[1]	1977											1972	
		All establishments[2]		All employees[2]		Production workers			Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
Wisconsin	-	8 878	3 163	535.0	7 317.8	381.0	745.4	4 697.1	16 606.0	22 382.9	38 725.3	1 184.4	500.5	9 443.3
STANDARD CONSOLIDATED STATISTICAL AREAS														
Milwaukee-Racine	-	3 264	1 288	231.3	3 428.3	156.2	302.8	2 094.8	7 389.5	7 034.5	14 297.3	444.7	228.1	4 286.4
STANDARD METROPOLITAN STATISTICAL AREAS														
Appleton-Oshkosh	-	500	237	42.9	582.2	30.9	81.8	375.9	1 366.9	1 905.2	3 233.2	96.3	38.4	723.8
Duluth-Superior, Minn.-Wis.	-	299	79	9.4	110.9	6.7	12.7	70.6	260.2	483.4	735.8	(D)	10.4	165.5
Portion in Wisconsin	-	49	12	1.0	12.5	0.8	1.4	8.7	54.6	210.8	258.3	5.2	1.8	38.7
Portion in Minnesota	-	250	67	8.3	98.4	5.9	11.3	62.0	205.6	272.7	477.3	(D)	8.8	128.8
Eau Claire	-	177	57	8.7	114.4	6.5	13.5	85.1	271.5	428.6	688.9	19.0	5.2	141.4
Green Bay	-	279	111	20.3	290.9	14.9	29.9	199.4	874.9	1 697.6	2 566.3	140.1	17.5	383.8
Kenosha	-	145	44	17.7	248.2	13.1	21.4	170.2	418.8	1 058.0	1 480.3	14.6	15.8	382.5
La Crosse	-	129	39	9.4	111.8	6.1	12.1	64.0	244.4	223.9	487.3	21.6	8.4	123.9
Madison	-	436	132	18.2	264.5	12.3	24.4	160.3	538.7	882.7	1 414.2	34.3	16.2	300.0
Milwaukee	-	2 859	1 141	204.1	3 042.5	138.7	268.8	1 882.5	6 408.8	6 272.7	12 554.3	389.1	200.0	3 700.0
Minneapolis-St. Paul, Minn.-Wis.	-	3 861	1 349	216.9	3 331.3	127.4	245.6	1 582.4	6 408.0	7 407.6	13 645.1	353.3	199.0	3 734.8
Portion in Wisconsin	-	63	23	2.1	24.9	1.5	3.1	15.4	67.6	76.8	142.4	3.1	1.8	38.1
Portion in Minnesota	-	3 798	1 326	214.8	3 308.4	125.9	242.6	1 547.0	8 340.4	7 330.8	13 502.8	350.3	197.2	3 696.8
Racine	-	405	147	27.2	385.8	17.5	34.0	212.3	980.7	781.8	1 743.0	55.5	25.8	589.8
COUNTIES														
Adams	E1	13	6	0.4	4.5	0.3	0.6	3.1	10.7	16.5	27.1	0.9	0.2	2.2
Ashland	E1	49	15	1.4	13.3	1.3	2.3	10.9	35.6	34.5	88.9	1.8	1.3	20.2
Barron	-	76	28	3.3	31.1	2.7	5.2	22.8	77.7	173.2	249.9	9.7	2.8	38.8
Bayfield	E3	31	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.1
Brown	-	279	111	20.3	290.9	14.9	29.9	199.4	874.9	1 697.6	2 566.3	140.1	17.5	383.8
Buffalo	-	23	2	0.2	2.1	0.2	0.3	1.4	9.3	14.4	23.6	0.2	0.2	3.9
Burnett	-	24	9	0.6	5.2	0.5	0.9	3.8	11.5	17.0	28.8	1.1	0.4	4.4
Calumet	-	59	24	5.0	64.0	4.1	7.8	49.3	173.6	251.0	420.2	10.5	4.5	87.2
Chippewa	-	103	33	4.1	43.2	2.8	6.0	30.3	111.4	246.5	353.9	8.0	5.7	118.1
Clark	-	97	18	1.6	15.4	1.3	2.4	12.1	36.2	119.2	154.5	2.5	1.6	21.7
Columbia	-	85	33	3.4	32.4	2.8	5.4	22.8	75.0	105.8	175.6	3.8	3.1	61.5
Crawford	-	33	7	0.9	9.7	0.7	1.4	7.3	53.8	53.2	106.8	1.5	0.6	20.5
Dane	-	436	132	18.2	264.5	12.3	24.4	160.3	536.7	882.7	1 414.2	34.3	18.2	300.0
Dodge	-	144	58	8.7	107.1	6.8	13.2	75.5	277.6	309.3	584.4	11.6	8.8	145.4
Door	-	48	14	3.5	39.2	3.1	5.7	30.0	112.0	94.4	207.1	7.3	1.8	22.2
Douglas	-	49	12	1.0	12.5	0.8	1.4	8.7	54.6	210.6	258.3	5.2	1.6	36.7
Dunn	-	35	9	0.9	9.5	0.8	1.5	7.1	26.8	53.7	79.3	2.0	0.6	13.8
Eau Claire	-	74	24	4.7	71.2	3.7	7.5	54.8	160.2	182.1	335.0	11.0	5.2	141.7
Florence	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fond du Lac	-	139	60	10.8	139.1	7.6	14.6	87.7	377.8	625.4	1 000.9	13.5	10.8	237.1
Forest	E1	40	4	0.6	5.3	0.5	0.8	4.0	11.2	9.5	20.5	0.9	0.7	7.8
Grant	E1	78	20	2.0	16.9	1.6	3.1	12.2	32.0	89.7	120.9	2.9	1.2	16.9
Green	-	64	20	2.2	21.2	1.9	3.5	16.0	63.9	127.2	189.3	4.9	2.1	40.7
Green Lake	-	52	20	2.4	22.6	2.0	3.9	16.4	53.2	46.3	99.3	2.9	2.0	29.3
Iowa	E1	33	5	0.3	3.0	0.3	0.5	2.4	9.3	17.3	26.5	0.4	0.4	7.7
Iron	E2	16	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	2.0
Jackson	E4	21	6	0.6	6.1	0.5	1.0	4.0	13.8	24.1	37.1	(D)	0.6	11.0
Jefferson	-	129	56	9.9	128.4	6.9	13.5	75.5	284.4	393.8	679.2	13.2	8.6	171.5
Juneau	-	37	14	1.4	12.8	1.2	2.3	9.5	27.8	57.9	85.4	2.8	1.2	15.1
Kenosha	-	145	44	17.7	246.2	13.1	21.4	170.2	416.6	1 058.0	1 480.3	14.6	15.8	382.5
Kewaunee	E1	41	12	1.2	13.1	1.0	1.9	9.7	25.6	45.4	70.9	0.9	1.9	25.7
La Crosse	-	129	39	9.4	111.8	6.1	12.1	64.0	244.4	223.9	467.3	21.6	8.4	123.9
Lafayette	E2	32	4	0.3	2.6	0.2	0.4	1.8	4.6	23.3	28.0	0.4	0.1	3.8
Langlade	E1	50	16	1.3	11.2	1.1	2.0	8.5	28.4	43.6	72.0	1.3	1.2	15.8
Lincoln	-	63	22	3.2	35.5	2.5	4.9	25.1	80.1	90.6	170.0	(D)	3.0	46.0
Manitowoc	-	149	70	14.7	167.7	10.3	20.6	108.7	364.6	395.5	756.8	31.7	13.3	194.7
Marathon	-	212	71	13.2	182.7	9.4	19.7	121.0	384.8	779.3	1 155.8	36.8	11.5	194.3
Marinette	-	110	33	6.4	79.9	5.0	9.6	57.5	164.4	248.3	408.9	40.0	4.6	90.5
Marquette	-	18	6	0.4	3.8	0.4	0.7	2.7	8.9	25.5	34.0	0.6	0.5	4.9
Menominee	-	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Milwaukee	-	1 792	735	153.6	2 348.0	103.8	200.7	1 463.6	4 954.1	4 797.6	9 660.7	295.2	159.2	2 939.8
Monroe	-	45	15	2.1	18.7	1.7	3.1	12.2	52.3	71.8	118.5	2.1	1.3	19.3
Oconto	-	70	26	2.2	22.8	1.8	3.7	16.4	46.8	92.4	141.4	6.0	2.5	41.8
Oneida	-	51	14	2.1	28.8	1.6	3.2	20.8	49.1	90.7	137.9	4.8	1.6	31.5
Outagamie	-	179	77	16.7	223.2	12.3	25.3	147.6	576.7	901.8	1 456.1	50.6	14.2	281.4
Ozaukee	-	172	74	9.6	122.8	7.1	13.8	80.9	238.5	283.0	520.1	14.1	8.2	153.8
Pepin	-	11	6	0.3	2.5	0.3	0.4	1.9	8.7	18.2	27.0	0.3	0.2	2.9
Pierce	-	36	9	1.0	11.4	0.7	1.6	7.2	30.3	51.7	81.5	3.8	0.8	27.5
Polk	-	68	22	1.8	17.7	1.5	2.9	12.8	46.5	63.3	108.5	9.2	1.4	22.6
Portage	-	66	28	3.5	43.2	2.7	5.5	30.1	86.7	121.4	206.8	11.3	2.5	40.1
Price	E2	47	12	1.1	11.4	0.9	1.6	7.8	29.6	32.1	65.1	3.0	1.6	25.7
Racine	-	405	147	27.2	385.8	17.5	34.0	212.3	980.7	761.8	1 743.0	55.5	25.8	589.6
Richland	-	31	9	0.8	7.5	0.6	1.6	5.6	30.7	65.7	95.0	0.8	0.7	12.8
Rock	-	186	62	20.3	321.2	15.1	30.5	223.3	942.0	2 013.3	2 951.8	27.1	18.0	427.2
Rusk	-	40	14	1.3	13.4	1.2	2.4	10.9	34.3	49.0	82.5	2.1	0.9	10.8
St. Croix	-	63	23	2.1	24.9	1.5	3.1	15.4	67.6	76.8	142.4	3.1	1.8	38.1
Sauk	-	81	29	3.5	34.3	2.5	5.3	20.7	93.0	168.4	259.0	5.6	4.9	76.9
Sawyer	E3	42	4	0.4	3.3	0.3	0.6	2.8	6.6	4.9	11.4	0.3	0.2	2.6
Shawano	-	76	22	1.6	18.7	1.2	2.5	11.1	45.9	122.8	168.0	2.8	1.4	18.9
Sheboygan	-	222	109	17.4	222.5	12.5	26.1	149.2	469.6	644.2	1 121.0	25.0	16.7	286.5
Taylor	-	36	13	1.6	18.8	1.4	2.9	13.3	55.9	42.0	96.4	3.6	1.2	15.0

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
COUNTIES—Con.														
Trempealeau	–	57	14	2.1	20.4	1.8	3.6	16.4	45.2	181.4	223.2	3.4	1.5	23.4
Vernon	E3	47	10	0.6	5.3	0.5	0.8	3.9	19.8	29.0	48.0	0.8	0.5	10.2
Vilas	E1	35	7	0.6	4.6	0.5	0.9	3.3	10.6	11.1	21.7	0.6	0.6	8.2
Walworth	–	165	52	6.3	69.1	5.0	9.7	48.9	165.4	208.1	371.1	13.7	5.5	89.4
Washburn	E1	33	5	0.5	4.6	0.4	0.8	3.3	8.1	20.3	28.0	0.6	0.3	3.1
Washington	–	167	56	10.9	131.9	7.5	14.2	77.0	303.5	342.1	638.1	11.8	10.0	176.1
Waukesha	–	728	276	30.0	439.8	20.2	40.0	261.0	912.8	850.0	1 735.4	68.0	22.7	430.3
Waupaca	–	93	34	3.8	37.8	2.8	5.7	26.1	81.2	130.0	207.8	5.9	3.4	51.5
Waushara	E1	21	7	0.3	3.2	0.3	0.5	2.0	6.8	11.4	18.2	0.2	0.3	3.8
Winnebago	–	262	136	21.3	295.0	14.6	28.7	179.0	618.6	752.4	1 356.9	35.3	19.7	355.3
Wood	–	122	51	11.4	175.3	8.1	18.0	108.6	343.4	557.1	900.2	42.7	10.2	178.6
CITIES														
Algoma	–	10	5	0.5	4.6	0.3	0.6	3.4	9.4	14.2	23.9	0.4	1.0	12.4
Antigo	–	27	12	0.8	8.0	0.7	1.3	6.2	19.4	36.3	55.8	1.0	0.9	10.2
Appleton	–	92	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.3	146.1
Ashland	–	23	12	1.0	9.6	0.8	1.5	7.8	25.5	26.2	51.1	1.5	0.9	14.6
Baraboo	–	23	13	1.7	14.8	1.4	2.7	10.2	43.7	35.2	77.6	2.3	3.7	52.6
Beaver Dam	–	32	13	2.5	25.8	2.1	4.1	19.7	80.7	70.3	150.1	2.0	2.3	34.9
Beloit	–	55	19	6.9	93.7	4.3	8.2	49.6	230.8	209.5	440.4	7.2	6.9	92.7
Berlin	–	26	11	1.7	16.0	1.4	2.7	11.7	35.5	22.7	58.0	(D)	1.3	16.3
Black River Falls	E3	13	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Boscobel	–	9	4	0.8	7.0	0.7	1.4	5.9	8.3	31.3	39.8	0.6	(NA)	(NA)
Brillion	–	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Brookfield	–	70	30	3.2	49.9	1.9	4.0	28.6	78.9	74.4	152.2	4.3	2.2	51.7
Brown Deer	–	21	10	1.8	25.7	1.2	2.2	15.2	51.8	31.9	82.1	5.5	1.4	29.9
Burlington	–	32	14	2.1	23.8	1.7	3.4	17.2	115.5	89.3	203.4	3.6	(D)	(D)
Cedarburg	–	39	16	2.6	33.3	2.0	3.9	24.5	60.2	71.7	130.5	4.9	2.1	35.2
Chilton	–	16	7	0.7	8.4	0.6	1.3	6.6	36.0	40.9	77.0	(D)	0.8	16.3
Chippewa Falls	–	47	17	2.4	25.1	1.5	3.4	16.4	68.2	124.9	189.9	4.3	1.5	25.9
Clintonville	–	18	8	0.8	9.2	0.5	1.0	4.9	20.2	20.7	38.2	0.6	1.2	16.3
Columbus	–	16	8	0.5	5.2	0.4	0.8	3.8	10.4	9.6	19.4	0.6	0.5	8.8
Combined Locks	–	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cudahy	–	39	22	7.8	128.0	6.0	11.1	95.0	191.1	352.4	541.9	13.1	7.0	135.5
Delavan	–	22	8	2.0	22.4	1.5	3.0	15.2	57.4	58.9	112.8	7.8	2.0	34.6
De Pere	–	43	13	1.5	22.7	1.1	2.4	16.5	49.4	90.4	139.2	4.2	1.2	32.5
Eau Claire	–	63	25	5.0	75.9	3.9	7.8	58.3	173.4	191.4	357.5	(D)	8.0	213.7
Edgerton	–	14	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	15.1
Elkhorn	–	24	7	0.9	9.6	0.7	1.4	7.8	26.3	21.4	47.3	0.8	1.0	19.2
Evansville	–	14	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Fond du Lac	–	49	26	5.0	68.7	3.6	7.1	45.2	146.2	226.8	371.3	8.0	5.3	94.9
Fort Atkinson	–	24	12	2.0	26.6	1.3	2.5	16.1	52.9	72.6	122.6	2.3	2.4	37.3
Germantown	–	34	10	0.6	8.3	0.4	0.8	4.5	15.5	22.1	37.3	1.5	(NA)	(NA)
Glendale	–	53	27	5.7	89.0	3.7	7.7	52.9	160.3	185.3	335.4	8.7	4.1	80.3
Grafton	–	43	21	3.2	39.1	2.6	5.1	28.4	79.3	84.9	163.2	3.8	2.8	50.7
Green Bay	–	161	89	14.3	208.2	10.5	20.9	144.4	678.5	1 204.8	1 880.7	129.5	13.7	304.1
Greendale	–	16	10	0.5	6.8	0.4	0.7	4.1	15.3	9.5	24.7	1.0	(NA)	(NA)
Hartford	–	28	11	2.8	31.5	2.0	3.6	20.0	74.8	78.8	150.8	3.8	2.0	43.2
Horicon	–	8	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hudson	–	13	6	0.5	5.4	0.3	0.7	3.2	14.0	23.6	36.7	1.3	(D)	(D)
Janesville	–	75	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jefferson	–	18	8	2.2	27.3	1.3	2.6	13.1	84.8	138.4	233.7	2.2	2.1	65.4
Kaukauna	–	12	8	2.5	37.9	1.9	4.0	27.1	84.4	142.1	224.4	(D)	2.4	49.7
Kenosha	–	105	34	16.0	225.5	12.0	19.2	158.5	372.1	1 010.0	1 389.3	12.5	14.5	347.4
Kewaunee	–	14	5	0.6	8.9	0.5	1.1	5.3	12.7	10.3	22.9	0.2	0.7	9.5
Kiel	–	19	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	7.8
Kimberly	–	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
La Crosse	–	94	27	7.8	97.3	4.8	9.3	53.3	210.1	194.5	406.8	17.8	6.8	107.0
Ladysmith	–	14	7	0.6	6.1	0.5	1.1	4.9	16.1	21.4	37.8	1.4	(NA)	(NA)
Lake Geneva	E2	28	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	8.1
Lake Mills	–	15	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	18.7
Madison	–	210	82	11.3	181.3	7.3	14.3	108.6	333.5	598.1	930.8	16.9	11.6	204.9
Manitowoc	–	84	45	9.6	113.1	6.5	13.3	73.4	244.6	256.5	499.9	27.0	8.5	117.7
Marinette	–	31	14	3.1	41.0	2.2	4.5	27.9	87.2	139.1	226.1	33.2	2.3	49.0
Marshfield	–	57	24	2.8	34.2	2.3	4.5	24.3	78.4	149.7	227.3	3.8	(D)	(D)
Mayville	–	20	11	2.0	25.2	1.5	2.9	17.8	59.1	46.7	102.5	2.1	1.6	30.2
Medford	–	19	8	1.3	18.2	1.1	2.4	11.4	50.1	34.6	83.2	3.2	1.0	12.1
Menasha	–	36	20	4.5	72.7	2.8	5.2	37.6	117.3	156.3	269.9	6.3	3.6	66.6
Menomonee Falls	E1	122	51	4.2	55.3	2.9	5.6	33.4	98.9	95.9	191.9	5.5	3.1	53.4
Menomonie	–	17	5	0.7	7.8	0.6	1.2	8.0	23.3	42.3	64.6	(D)	(D)	(D)
Mequon	–	26	8	0.8	10.2	0.5	0.9	5.4	22.4	18.9	39.2	1.3	(NA)	(NA)
Merrill	–	36	15	2.3	23.3	1.8	3.5	16.2	45.6	59.3	104.3	1.6	2.3	26.0
Middleton	–	36	8	1.2	13.5	0.9	1.8	8.5	37.5	28.0	63.2	3.9	0.9	20.8
Milwaukee	–	1 192	485	91.4	1 397.6	80.5	119.1	848.3	2 736.6	2 680.9	5 360.4	182.2	106.3	1 898.2
Monroe	–	32	13	1.5	14.3	1.3	2.4	10.9	41.5	95.9	135.8	4.1	1.5	32.2
Neenah	–	52	34	6.1	91.6	4.3	8.6	59.5	214.2	251.1	462.1	14.3	5.7	120.6
Neillsville	–	18	4	0.8	5.0	0.5	0.8	4.4	11.4	14.2	24.9	0.5	(NA)	(NA)
New Berlin	–	108	50	4.3	65.7	3.0	5.9	41.0	143.1	109.4	247.3	6.6	2.8	68.6
New Holstein	–	13	7	2.2	27.7	1.9	3.4	22.5	54.0	101.2	154.9	1.1	2.3	36.9
New London	–	20	9	2.0	24.4	1.5	2.8	14.6	89.1	150.1	216.6	(D)	1.3	28.8
New Richmond	–	14	8	0.9	12.1	0.6	1.3	7.1	30.4	27.0	56.9	0.7	0.9	26.6
Oak Creek	–	59	29	5.0	82.8	3.6	7.3	58.5	412.9	385.0	800.4	14.5	1.7	34.4
Oconomowoc	–	40	17	1.8	20.5	1.3	2.7	14.5	65.2	99.8	162.4	2.2	1.5	30.5

See footnotes at end of table.

Table 4. **All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972**—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
		All establishments[2]		All employees[2]		Production workers								
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
CITIES—Con.														
Oconto	-	19	9	0.9	8.4	0.7	1.7	6.2	16.9	24.1	41.5	0.5	(D)	(D)
Oshkosh	-	117	54	8.0	99.1	5.6	11.1	62.5	215.5	252.9	463.4	7.7	7.5	123.5
Peshtigo	-	17	8	0.8	10.9	0.7	1.4	8.6	23.7	27.8	51.0	1.2	(D)	(D)
Pewaukee	-	17	10	0.8	11.5	0.8	1.1	7.3	29.9	16.2	45.3	2.4	0.8	8.3
Plover	-	7	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Plymouth	-	20	6	1.4	17.3	1.1	2.1	12.3	67.8	183.1	255.3	1.1	1.8	30.1
Portage	-	24	8	1.3	11.0	1.2	2.2	8.5	21.8	33.6	51.6	1.9	1.1	23.8
Port Washington	-	21	10	1.7	23.9	1.1	2.0	13.1	45.9	56.4	103.2	2.9	1.9	43.5
Prairie du Chian	-	15	6	0.8	9.2	0.6	1.3	6.8	53.8	44.9	97.8	1.5	(D)	(D)
Racine	-	271	94	17.3	241.6	10.2	19.4	115.0	372.5	294.0	663.2	29.8	17.8	271.7
Reedsburg	-	17	7	1.2	11.7	0.9	1.9	8.4	34.0	78.7	112.4	2.1	1.1	20.0
Rhinelander	-	26	11	1.9	26.5	1.4	2.9	19.4	43.6	85.1	127.1	4.1	1.5	29.8
Rice Lake	-	26	12	1.5	13.9	1.2	2.4	10.0	28.6	39.0	66.9	3.6	1.1	14.7
Richland Center	-	24	7	0.7	6.7	0.6	1.5	5.2	29.2	61.3	89.2	(D)	0.6	11.8
Ripon	-	21	13	1.9	20.1	1.5	2.8	12.6	55.2	73.7	129.7	2.5	2.3	33.0
Rothschild	-	7	6	1.1	16.4	0.7	1.5	10.9	29.8	53.9	82.8	(D)	(D)	(D)
St. Francis	-	21	7	0.5	4.9	0.4	0.8	3.5	10.0	10.3	19.9	(D)	(NA)	(NA)
Schofield	-	27	10	1.8	30.7	1.1	2.3	16.4	65.3	88.4	149.0	2.7	1.4	30.5
Shawano	-	34	11	0.9	10.3	0.7	1.4	8.4	17.7	30.7	47.8	1.7	0.9	9.5
Sheboygan	-	123	65	7.9	94.0	5.8	11.3	59.1	185.3	279.1	463.9	13.5	8.1	133.3
Sheboygan Falls	-	20	8	0.8	10.3	0.6	1.2	7.2	21.0	30.7	50.6	1.8	1.1	20.6
South Milwaukee	-	26	9	4.2	60.9	2.5	4.9	33.8	186.5	124.5	309.4	9.1	4.0	71.7
Sparta	-	18	9	1.4	12.6	1.1	2.1	7.7	21.8	33.9	56.1	1.5	0.8	12.3
Stevens Point	-	41	19	2.1	24.3	1.6	3.3	16.8	47.9	53.7	101.3	(D)	1.8	25.8
Stoughton	-	26	8	0.9	10.0	0.7	1.2	6.8	27.9	39.1	66.8	1.9	0.8	14.8
Sturgeon Bay	-	33	14	3.5	38.8	3.1	5.6	29.8	111.4	93.2	205.3	7.2	1.6	21.4
Sun Prairie	-	15	5	0.7	8.4	0.6	1.2	6.5	22.8	17.8	40.4	(D)	0.6	11.0
Superior	-	32	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Tomah	-	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Two Rivers	-	25	11	4.1	43.8	3.0	5.8	27.7	90.0	73.1	163.1	3.4	4.0	62.7
Union Grove	-	11	6	0.5	6.2	0.4	0.8	3.8	11.5	8.7	20.3	1.0	(NA)	(NA)
Watertown	-	42	18	3.0	39.0	2.1	4.1	20.9	79.7	106.2	182.5	4.3	2.1	36.2
Waukesha	-	138	54	10.0	153.6	6.8	13.5	97.1	355.1	297.7	644.3	37.8	8.7	182.2
Waupaca	-	14	8	1.2	15.3	1.0	2.3	12.2	37.0	40.6	77.0	(D)	0.9	13.7
Waupun	-	18	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	23.4
Wausau	-	84	36	5.5	69.2	4.0	8.0	45.4	140.0	192.4	331.2	7.0	5.7	85.9
Wauwatosa	-	88	35	10.1	150.3	8.5	16.0	118.8	293.6	222.0	513.4	11.3	8.7	193.1
West Allis	-	150	60	14.5	221.1	9.2	16.2	124.4	490.1	411.7	883.5	29.9	13.6	261.6
West Bend	-	47	15	5.4	64.9	3.5	6.8	36.4	149.3	136.8	282.0	3.8	5.6	96.5
West Milwaukee	E1	48	29	10.2	155.6	6.6	12.7	97.8	344.8	335.6	669.4	16.6	11.1	214.1
Whitewater	-	18	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	9.6
Wisconsin Rapids	-	32	13	4.7	74.3	3.4	6.6	47.6	162.8	238.7	399.4	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
	All industries	-	**8 678**	**3 183**	**535.0**	**7 317.8**	**381.0**	**745.4**	**4 697.1**	**18 806.0**	**22 382.9**	**38 725.3**	**1 184.4**	**500.5**	**9 443.3**
20	**Food and kindred products**	-	**1 205**	**459**	**59.8**	**777.0**	**44.0**	**88.0**	**534.8**	**2 304.0**	**6 628.3**	**8 929.0**	**179.5**	**56.5**	**1 326.2**
201	Meat products	-	138	54	11.9	180.4	9.4	18.5	136.2	378.5	1 469.4	1 840.2	23.1	9.6	189.3
2011	Meat packing plants	-	77	25	8.5	142.1	6.8	13.6	109.5	290.9	1 256.8	1 542.8	14.8	7.2	158.0
2013	Sausages and other prepared meats	-	50	23	2.2	28.8	1.6	3.2	19.5	62.1	155.9	216.3	4.0	1.3	19.9
2016	Poultry dressing plants	-	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	9.9
2017	Poultry and egg processing	E2	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
202	Dairy products	-	547	166	14.9	177.3	11.6	23.4	128.7	624.5	3 229.3	3 840.4	40.4	15.3	392.3
2021	Creamery butter	-	21	9	0.4	5.6	0.3	0.6	3.3	23.2	201.9	224.1	2.2	0.4	12.1
2022	Cheese, natural and processed	-	378	99	9.5	103.3	8.0	15.7	82.1	368.4	2 071.0	2 429.9	24.1	8.8	207.1
2023	Condensed and evaporated milk	-	47	29	2.3	31.8	1.8	4.0	23.2	136.5	503.1	637.7	5.1	2.1	91.6
2024	Ice cream and frozen desserts	-	17	4	0.4	4.2	0.3	0.5	2.5	11.4	18.6	29.5	0.9	0.5	7.7
2026	Fluid milk	-	84	25	2.3	32.5	1.2	2.5	17.6	85.0	434.7	519.2	8.0	3.4	73.8
203	Preserved fruits and vegetables	-	126	91	11.0	94.3	9.3	18.2	72.7	293.2	407.6	700.7	16.6	10.5	186.9
2032	Canned specialties	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2033	Canned fruits and vegetables	-	80	68	7.4	63.1	6.7	13.3	52.1	213.4	305.1	518.5	10.3	7.8	138.0
2034	Dehydrated fruits, vegetables, and soups	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2035	Pickles, sauces, and salad dressings	-	21	11	1.4	8.9	0.9	1.7	6.2	36.5	32.6	68.7	1.9	CC	(D)
2037	Frozen fruits and vegetables	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2038	Frozen specialties	E1	16	7	1.5	15.6	1.1	2.1	9.3	37.3	43.5	80.8	(D)	1.2	29.0
204	Grain mill products	-	101	26	2.2	25.7	1.3	2.5	14.3	124.8	298.6	423.8	5.4	2.0	86.5
2041	Flour and other grain mill products	E1	10	4	0.5	6.7	0.3	0.6	3.8	26.1	73.1	99.3	3.1	BB	(D)
2045	Blended and prepared flour	E1	7	2	0.2	2.0	0.1	0.2	0.8	4.9	9.6	14.5	0.1	(NA)	(NA)
2047	Dog, cat, and other pet food	-	19	7	0.6	5.4	0.4	0.8	4.2	51.3	58.0	110.0	0.9	CC	(D)
2048	Prepared feeds, n.e.c.	-	65	13	0.9	11.6	0.5	1.0	5.4	42.5	157.9	200.0	1.3	1.0	35.9
205	Bakery products	-	61	28	4.9	50.3	2.6	5.3	25.5	118.9	89.2	208.5	4.4	4.6	70.6
2051	Bread, cake, and related products	-	53	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2052	Cookies and crackers	-	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
206	Sugar and confectionery products	-	25	10	1.5	15.8	1.2	2.3	10.6	118.3	158.1	273.1	5.0	1.4	42.5
2065	Confectionery products	-	20	7	0.6	4.9	0.5	0.9	3.3	16.1	17.5	33.1	(D)	0.7	10.8
2066	Chocolate and cocoa products	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
207	Fats and oils	-	10	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	5.1
2077	Animal and marine fats and oils	-	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
208	Beverages	-	119	48	11.0	206.7	6.8	14.3	128.3	547.7	851.5	1 423.2	79.4	11.2	317.7
2082	Malt beverages	-	10	9	7.9	164.2	5.2	11.1	109.1	409.4	549.8	964.7	70.6	FF	(D)
2083	Malt	-	13	7	0.6	10.5	0.4	0.9	7.3	46.1	168.5	232.5	2.0	CC	(D)
2086	Bottled and canned soft drinks	E1	83	27	2.3	30.1	1.0	2.1	10.6	84.4	125.1	210.2	5.4	2.4	44.4
209	Miscellaneous foods and kindred products	-	78	33	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	35.4
2092	Fresh or frozen packaged fish	-	17	4	0.2	1.5	0.2	0.3	1.2	3.5	11.0	14.5	0.2	(NA)	(NA)
2099	Food preparations, n.e.c.	-	52	27	1.9	21.4	1.5	2.7	15.0	84.2	87.5	170.1	4.2	1.4	32.6
22	**Textile mill products**	-	**50**	**24**	**4.7**	**47.1**	**3.9**	**7.7**	**34.2**	**114.6**	**109.7**	**220.0**	**7.9**	**6.4**	**103.2**
225	Knitting mills	-	16	13	3.1	28.9	2.6	5.1	21.2	62.0	41.4	99.7	1.4	4.8	71.8
2252	Hosiery, n.e.c.	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2253	Knit outerwear mills	-	8	7	2.0	17.6	1.7	3.3	12.6	38.7	19.3	55.3	0.6	0.9	10.2
2257	Circular knit fabric mills	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
227	Floor covering mills	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2279	Carpets and rugs, n.e.c.	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
228	Yarn and thread mills	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2283	Wool yarn mills	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
229	Miscellaneous textile goods	-	19	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	18.2
2291	Felt goods, except woven felts and hats	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2295	Coated fabrics, not rubberized	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2297	Nonwoven fabrics	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
23	**Apparel and other textile products**	-	**144**	**64**	**7.3**	**55.9**	**5.6**	**10.5**	**38.7**	**116.2**	**131.0**	**245.8**	**3.3**	**7.4**	**74.6**
2311	Men's and boys' suits and coats	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
232	Men's and boys' furnishings	-	17	14	2.4	17.7	1.7	3.0	11.6	37.7	81.9	99.8	(D)	1.7	16.6
2321	Men's and boys' shirts and nightwear	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2322	Men's and boys' underwear	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2328	Men's and boys' work clothing	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2329	Men's and boys' clothing, n.e.c.	-	10	6	0.9	7.4	0.8	1.3	5.1	11.8	9.1	19.8	0.1	CC	(D)
233	Women's and misses' outerwear	-	21	13	1.7	14.0	1.4	2.5	9.5	30.4	24.2	54.5	(D)	1.6	15.5
2335	Women's and misses' dresses	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2337	Woman's and misses' suits and coats	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2339	Women's and misses' outerwear, n.e.c.	E2	8	3	0.2	1.3	0.2	0.3	0.9	2.5	0.5	3.0	(D)	CC	(D)
234	Women's and children's undergarments	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2341	Women's and children's underwear	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
235	Hats, caps, and millinary	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2352	Hats and caps, except millinery	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
236	Children's outerwear	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	4.3
2361	Children's dresses and blouses	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
238	Miscellaneous apparel and accessories	-	14	7	0.4	2.2	0.3	0.7	1.6	5.1	3.0	6.0	(D)	0.4	3.4
2381	Fabric drass and work gloves	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textila products	E1	77	21	1.6	11.7	1.3	2.3	6.3	23.6	28.4	52.0	(D)	1.9	18.6
2391	Curtains and draperias	E1	20	3	0.2	1.5	0.2	0.3	1.1	2.6	3.3	6.0	0.1	0.2	1.5
2394	Canvas and relatad products	E1	23	5	0.3	2.5	0.2	0.4	1.7	4.3	3.5	7.8	0.1	0.2	1.5
2399	Fabricated textila products, n.a.c.	-	14	8	0.6	6.2	0.7	1.3	4.5	13.6	16.5	30.2	0.3	1.3	12.9
24	**Lumber and wood products**	-	**903**	**202**	**22.3**	**236.4**	**19.0**	**37.9**	**179.3**	**498.3**	**585.3**	**1 073.4**	**33.6**	**18.4**	**245.7**
2411	Logging camps and logging contractors	E4	314	11	1.2	10.9	1.1	1.5	9.0	24.3	30.0	54.0	3.4	1.3	15.0
242	Sawmills and planing mills	E1	215	44	3.3	28.5	2.9	5.6	23.0	56.7	61.8	120.5	9.4	2.2	26.9
2421	Sawmills and planing mills, ganeral	E1	193	31	2.4	21.8	2.1	4.2	17.4	47.7	51.2	98.8	7.9	1.5	20.4
2426	Hardwood dimension and flooring	-	17	8	0.7	4.9	0.6	1.1	4.0	6.6	8.5	16.6	(D)	0.5	3.9
2429	Special product sawmills, n.e.c.	-	5	5	0.2	1.8	0.2	0.4	1.6	2.1	2.1	4.9	(D)	0.3	2.7
243	Millwork, plywood, and structural members	-	189	66	9.2	99.4	7.9	16.2	74.7	200.5	239.0	431.5	7.1	6.6	104.1
2431	Millwork	-	73	35	5.6	66.2	4.7	10.0	49.0	137.9	154.4	266.1	5.0	5.9	69.0
2434	Wood kitchen cabinats	-	60	12	1.2	12.5	1.0	2.0	9.3	21.3	21.9	42.5	0.6	0.4	4.7
2435	Hardwood veneer and plywood	-	20	16	2.2	16.8	1.9	3.8	15.2	37.4	56.0	92.2	1.2	EE	(D)
2439	Structural wood members, n.e.c.	-	16	5	0.2	2.0	0.2	0.3	1.2	3.9	6.7	10.6	0.2	(NA)	(NA)
244	Wood containers	E1	81	29	1.6	16.2	1.6	3.0	12.5	26.2	29.3	55.3	1.8	1.5	13.4
2441	Nailed wood boxes and shook	E2	13	6	0.4	2.7	0.3	0.6	2.2	4.0	4.7	8.6	(D)	0.4	2.9
2448	Wood pallets and skids	E1	60	19	1.1	9.8	1.0	1.9	7.6	18.5	19.5	36.0	1.2	0.7	6.2
2449	Wood containers, n.e.c.	-	8	4	0.3	3.7	0.3	0.5	2.7	5.6	5.1	10.7	(D)	0.5	4.3
245	Wood buildings and mobile homes	-	33	25	4.4	57.8	3.5	7.7	43.4	137.4	174.7	310.2	6.1	2.7	53.2
2451	Mobile homes	-	11	9	1.3	16.1	1.1	2.2	12.0	35.4	57.0	92.4	0.7	1.5	26.7
2452	Prefabricatad wood buildings	-	22	16	3.1	41.5	2.4	5.5	31.3	102.0	117.7	217.7	5.4	1.3	24.6
249	Miscellaneous wood products	-	91	25	2.4	23.9	2.0	3.8	18.7	51.3	50.6	102.0	5.7	2.1	33.0
2492	Particlaboard	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2499	Wood products, n.a.c.	-	85	20	2.0	20.2	1.7	3.3	14.2	42.6	36.7	79.5	3.7	1.7	25.6

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
25	**Furniture and fixtures**	-	**169**	**74**	**9.0**	**92.6**	**7.1**	**13.7**	**62.4**	**211.9**	**182.7**	**390.9**	**6.9**	**8.6**	**126.8**
251	Household furniture	-	70	33	4.6	43.5	3.6	6.9	29.8	90.2	81.1	169.3	(D)	4.4	54.3
2511	Wood household furniture	-	38	21	2.8	26.3	2.3	4.3	19.6	50.1	44.6	94.2	(D)	2.4	26.0
2512	Upholstered household furniture	-	10	6	1.3	12.6	0.9	1.8	7.0	26.9	18.7	44.8	(D)	1.5	21.9
2514	Metal household furniture	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2515	Mattresses and bedsprings	-	13	3	0.2	2.5	0.2	0.3	1.6	8.2	8.8	17.0	(D)	(NA)	(NA)
252	Office furniture	-	8	6	1.1	12.5	0.8	1.6	8.5	30.6	16.0	45.8	(D)	CC	(D)
2522	Metal office furniture	-	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2531	Public building and related furniture	-	18	8	0.7	7.9	0.6	1.1	5.3	23.1	30.6	53.8	(D)	CC	(D)
254	Partitions and fixtures	-	48	15	0.9	10.6	0.7	1.5	7.3	23.5	25.0	48.3	(D)	1.0	12.0
2541	Wood partitions and fixtures	-	43	12	0.7	8.3	0.6	1.2	5.9	18.5	18.5	36.8	(D)	0.8	10.5
2542	Metal partitions and fixtures	-	5	3	0.2	2.3	0.1	0.3	1.4	5.0	6.5	11.6	(D)	(NA)	(NA)
259	Miscellaneous furniture and fixtures	-	25	12	1.7	18.1	1.4	2.6	11.6	44.5	29.9	73.7	(D)	1.6	31.5
2591	Drapery hardware and blinds and shades	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2599	Furniture and fixtures, n.e.c.	-	20	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
26	**Paper and allied products**	-	**226**	**165**	**40.0**	**621.1**	**31.3**	**64.4**	**456.1**	**1 659.4**	**2 365.8**	**4 002.6**	**316.0**	**38.3**	**844.3**
2611	Pulp mills	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2621	Paper mills, except building paper	-	36	36	18.0	302.5	14.2	29.8	229.0	710.7	1 029.9	1 735.8	209.9	FF	(D)
2631	Paperboard mills	-	6	6	1.2	18.2	0.9	1.8	13.5	49.0	41.1	89.7	(D)	EE	(D)
264	Miscellaneous converted paper products	-	104	61	12.8	191.1	10.0	20.7	140.2	665.5	960.9	1 610.9	45.4	10.8	264.9
2641	Paper coating and glazing	-	21	14	3.7	57.5	2.7	5.5	37.5	157.6	255.2	409.1	4.1	3.1	72.4
2642	Envelopes	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2643	Bags, except textile bags	-	15	6	1.0	12.7	0.8	1.7	9.5	34.9	39.9	75.2	3.2	0.4	8.0
2646	Pressed and molded pulp goods	-	5	4	0.2	2.0	0.2	0.3	1.6	6.7	4.8	11.3	0.1	AA	(D)
2647	Sanitary paper products	-	18	16	6.3	100.2	5.2	10.6	79.3	420.5	605.5	1 015.0	36.4	5.7	159.3
2648	Stationery products	-	11	6	0.4	4.1	0.3	0.5	2.5	9.9	9.8	19.2	0.3	0.3	5.0
2649	Converted paper products, n.e.c.	-	26	9	0.7	8.2	0.5	1.2	5.7	21.7	34.0	55.3	0.8	0.5	8.8
265	Paperboard containers and boxes	-	74	56	7.3	96.5	5.5	10.8	65.6	196.3	273.4	467.9	20.7	7.4	130.2
2651	Folding paperboard boxes	-	11	9	1.0	11.5	0.8	1.4	7.7	25.0	22.7	47.4	3.0	1.0	17.9
2852	Setup paperboard boxes	-	6	6	0.3	3.1	0.3	0.5	2.3	4.3	5.1	9.5	(D)	BB	(D)
2653	Corrugated and solid fiber boxes	-	43	30	3.7	51.3	2.8	5.3	31.9	107.1	162.7	268.9	14.0	3.9	66.0
2654	Sanitary food containers	-	5	4	1.6	22.2	1.3	2.5	17.3	43.1	61.1	103.4	2.7	1.7	34.7
2655	Fiber cans, drums, and similar products	-	9	7	0.7	8.4	0.5	1.1	6.4	16.8	21.8	38.7	(D)	CC	(D)
27	**Printing and publishing**	-	**1 143**	**239**	**26.9**	**341.3**	**16.2**	**30.5**	**200.3**	**681.4**	**487.5**	**1 161.6**	**41.1**	**25.1**	**421.0**
2711	Newspapers	-	261	57	8.3	88.6	3.1	5.5	35.0	196.9	69.4	266.1	9.8	8.5	129.0
2721	Periodicals	E1	58	9	0.6	7.6	0.2	0.3	1.8	19.5	10.7	29.9	0.2	0.7	15.8
273	Books	-	57	18	3.6	49.0	2.2	4.1	29.0	96.0	92.8	186.5	3.9	1.9	42.6
2731	Book publishing	-	33	7	1.4	17.5	0.7	1.2	8.1	40.3	28.1	67.8	1.1	0.4	8.1
2732	Book printing	-	24	11	2.2	31.5	1.5	2.9	20.9	55.8	64.7	118.7	2.8	1.5	34.5
2741	Miscellaneous publishing	E1	47	8	0.4	4.3	0.2	0.3	1.3	9.6	5.7	15.3	0.3	0.3	5.2
275	Commercial printing	-	600	110	11.0	151.1	8.4	16.0	106.5	271.5	236.3	504.4	23.1	11.1	178.3
2751	Commercial printing, letterpress	E1	316	31	3.0	31.6	2.4	4.3	21.2	55.7	66.0	121.7	5.4	3.5	46.3
2752	Commercial printing, lithographic	-	259	70	7.0	102.6	5.3	10.3	73.7	190.6	143.4	330.3	16.5	FF	(D)
2754	Commercial printing, gravure	-	11	6	0.9	15.3	0.6	1.3	10.4	22.7	26.1	49.0	1.1	CC	(D)
2761	Manifold business forms	-	18	13	1.2	15.9	0.9	1.8	10.6	48.6	55.7	103.8	1.5	1.0	24.6
278	Blankbooks and bookbinding	-	22	8	0.8	9.4	0.8	1.1	5.7	14.5	7.1	21.5	0.5	0.8	10.8
2782	Blankbooks and looseleaf binders	-	9	6	0.7	8.0	0.4	0.9	4.7	12.3	6.7	19.0	0.5	0.7	8.9
279	Printing trade services	-	80	16	1.0	15.4	0.7	1.4	10.4	24.7	9.8	34.1	1.7	0.7	14.8
2791	Typesetting	E1	53	7	0.4	5.3	0.3	0.8	3.8	9.0	1.2	10.1	(D)	0.3	4.6
2795	Lithographic platemaking services	-	16	8	0.5	8.7	0.3	0.7	5.7	13.1	7.9	20.7	0.7	0.2	7.0

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
28	**Chemicals and allied products**	-	**228**	**88**	**7.8**	**108.4**	**4.4**	**9.2**	**54.8**	**518.4**	**468.0**	**985.1**	**26.0**	**10.5**	**372.8**
281	Industrial inorganic chemicals	-	14	3	0.2	2.8	0.2	0.3	2.2	17.7	18.1	33.7	1.2	(NA)	(NA)
282	Plastics materials and synthetics	-	6	5	0.8	9.4	0.4	0.8	5.8	41.2	55.7	96.3	(D)	0.9	31.9
2821	Plastics materials and resins	-	6	5	0.8	9.4	0.4	0.8	5.8	41.2	55.7	96.3	(D)	CC	(D)
283	Drugs	-	17	11	0.8	7.9	0.4	0.6	3.5	22.0	18.4	39.4	(D)	1.0	25.0
2831	Biological products	-	8	4	0.2	1.7	0.1	0.2	0.9	4.4	3.2	7.7	(D)	(NA)	(NA)
2833	Medicinals and botanicals	-	3	3	0.2	2.9	0.1	0.2	1.2	8.9	10.0	17.7	(D)	AA	(D)
2834	Pharmaceutical preparations	-	8	4	0.3	3.3	0.2	0.3	1.4	8.7	5.3	14.0	0.3	CC	(D)
284	Soaps, cleaners, and toilet goods	-	54	20	2.8	36.8	1.8	3.3	22.3	302.3	181.1	484.5	8.8	FF	(D)
2841	Soap and other detergents	E3	20	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	5.0
2842	Polishes and sanitation goods	-	24	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2843	Surface active agents	-	3	2	0.2	2.8	0.1	0.2	1.9	15.9	21.9	37.5	(D)	(NA)	(NA)
2844	Toilet preparations	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2851	Paints and allied products	-	31	11	1.0	15.7	0.5	1.0	8.1	37.0	85.4	101.3	2.5	1.0	28.2
286	Industrial organic chemicals	-	13	7	0.6	8.5	0.3	0.7	3.9	27.5	29.2	56.4	2.0	0.5	12.4
2869	Industrial organic chemicals, n.e.c.	-	11	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
287	Agricultural chemicals	-	26	7	0.3	3.7	0.2	0.4	2.1	13.4	24.8	38.5	(D)	0.3	6.1
2875	Fertilizers, mixing only	-	17	5	0.2	2.5	0.2	0.3	1.6	9.1	20.5	29.9	0.3	0.2	4.2
289	Miscellaneous chemical products	-	67	22	1.7	23.7	0.8	2.0	8.9	57.3	77.4	134.9	2.1	3.4	61.5
2891	Adhesives and sealants	-	14	4	0.5	6.9	0.3	0.7	3.6	14.4	24.4	39.7	0.3	0.3	6.8
2892	Explosives	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2893	Printing ink	E1	13	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	7.4
2899	Chemical preparations, n.e.c.	-	37	10	0.7	9.3	0.3	0.6	3.3	27.5	36.8	63.5	1.4	BB	(D)
29	**Petroleum and coal products**	-	**34**	**8**	**0.8**	**11.0**	**0.4**	**0.9**	**8.9**	**36.5**	**202.8**	**232.0**	**2.1**	**0.5**	**12.2**
2911	Petroleum refining	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
295	Paving and roofing materials	-	17	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2951	Paving mixtures and blocks	-	13	1	0.2	4.7	0.2	0.4	3.7	11.9	20.1	32.0	1.3	(NA)	(NA)
299	Miscellaneous petroleum and coal products	E1	15	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2992	Lubricating oils and greases	-	14	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
30	**Rubber and miscellaneous plastics products**	-	**278**	**155**	**18.5**	**192.0**	**13.2**	**25.8**	**134.7**	**441.0**	**419.8**	**851.7**	**35.8**	**12.7**	**226.2**
3011	Tires and inner tubes	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3021	Rubber and plastics footwear	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3041	Rubber and plastics hose and belting	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3069	Fabricated rubber products, n.e.c.	E1	28	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3079	Miscellaneous plastics products	-	246	135	11.8	125.6	9.3	18.2	82.6	302.2	303.4	601.6	27.9	8.2	136.8
31	**Leather and leather products**	-	**111**	**71**	**11.4**	**107.2**	**9.2**	**17.8**	**78.5**	**238.1**	**279.1**	**518.0**	**(D)**	**FF**	**(D)**
3111	Leather tanning and finishing	-	24	19	3.1	39.2	2.8	5.0	28.4	78.4	141.7	218.6	(D)	3.4	59.5
3131	Boot and shoe cut stock and findings	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
314	Footwear, except rubber	-	35	30	8.1	50.4	4.8	9.6	38.1	122.1	93.4	216.6	(D)	9.3	104.4
3143	Men's footwear, except athletic	-	20	19	4.9	42.7	3.7	7.7	29.5	107.9	82.2	191.6	(D)	7.7	90.4
3144	Women's footwear, except athletic	-	6	5	0.4	2.2	0.3	0.8	2.1	3.6	3.4	7.4	(Z)	0.6	4.4
3149	Footwear, except rubber, n.e.c.	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3151	Leather gloves and mittens	-	18	13	0.8	5.1	0.7	1.2	3.8	10.4	10.1	20.8	0.1	0.7	4.2
317	Handbags and other personal leather goods	-	9	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3172	Personal leather goods	-	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
32	**Stone, clay, and glass products**	-	**443**	**103**	**FF**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**8.1**	**167.9**
322	Glass and glassware, pressed or blown	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3221	Glass containers	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3231	Products of purchased glass	-	23	5	0.4	4.3	0.3	0.8	2.7	8.4	13.1	19.2	0.2	0.3	5.9
326	Pottery and related products	-	14	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3261	Vitreous plumbing fixtures	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3264	Porcelain electrical supplies	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
327	Concrete, gypsum, and plaster products	-	318	76	4.1	58.9	3.0	6.2	39.0	127.8	153.6	279.8	15.6	4.2	83.4
3271	Concrete block and brick	E1	46	13	0.8	8.7	0.4	0.8	4.9	20.2	21.1	40.9	1.4	0.6	12.9
3272	Concrete products, n.e.c.	-	98	24	1.3	18.2	1.0	2.2	12.4	37.8	30.3	67.1	4.0	1.6	27.7
3273	Ready-mixed concrete	E1	168	35	2.1	29.8	1.5	2.9	19.7	64.8	92.9	157.5	9.4	1.9	40.1
3281	Cut stone and stone products	E2	20	4	0.2	1.7	0.2	0.3	1.4	2.2	2.4	4.5	0.1	0.3	3.6
329	Miscellaneous nonmetallic mineral products	-	55	13	2.4	27.8	2.0	3.9	19.7	103.3	99.6	202.4	6.0	1.7	39.2
3291	Abrasive products	-	11	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3293	Gaskets, packing, and sealing devices	-	9	3	0.7	6.3	0.6	1.2	4.2	12.4	18.0	30.6	1.8	0.5	8.2
3295	Minerals, ground or treated	-	9	2	0.2	3.8	0.2	0.4	2.6	12.5	9.7	22.1	0.6	(NA)	(NA)
3296	Mineral wool	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
33	**Primary metal industries**	-	**233**	**144**	**27.4**	**390.7**	**22.3**	**44.6**	**294.7**	**783.1**	**678.0**	**1 455.1**	**70.9**	**24.5**	**415.4**
331	Blast furnace and basic steel products	-	21	12	2.7	42.4	2.2	4.6	32.7	88.1	139.0	228.1	9.7	2.4	44.8
3312	Blast furnaces and steel mills	-	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3315	Steel wire and related products	-	6	5	0.9	12.0	0.7	1.4	8.6	28.3	22.9	51.6	(D)	0.8	15.7
3317	Steel pipe and tubes	-	4	4	1.5	24.6	1.2	2.6	19.4	47.2	85.3	132.9	(D)	BB	(D)
332	Iron and steel foundries	-	92	78	18.3	232.9	13.2	26.3	175.7	473.1	279.0	746.6	46.1	13.8	214.5
3321	Gray iron foundries	-	60	50	9.5	131.1	7.8	15.3	99.8	277.8	185.1	461.7	33.5	7.7	117.0
3322	Malleable iron foundries	-	7	7	1.6	25.1	1.3	2.6	17.8	39.7	17.6	57.0	2.6	2.1	31.8
3324	Steel investment foundries	-	6	6	0.3	4.6	0.3	0.6	2.9	10.1	4.5	14.7	0.5	0.2	3.8
3325	Steel foundries, n.e.c.	-	19	15	4.8	72.0	3.8	7.9	55.2	145.5	71.8	213.2	9.5	3.7	61.9
3341	Secondary nonferrous metals	E1	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	7.5
335	Nonferrous rolling and drawing	-	11	6	2.0	32.6	1.6	3.3	24.1	66.1	100.5	166.1	3.1	2.4	50.3
3351	Copper rolling and drawing	-	3	3	1.7	28.6	1.4	2.9	21.5	59.1	95.6	154.7	2.7	EE	(D)
3357	Nonferrous wire drawing and insulating	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
336	Nonferrous foundries	-	68	37	5.5	70.8	4.7	9.2	54.8	125.2	124.2	247.8	9.4	4.8	81.2
3361	Aluminum foundries	-	49	31	4.9	64.3	4.3	8.4	50.4	111.4	112.6	222.5	9.0	3.6	55.6
3362	Brass, bronze, and copper foundries	-	11	5	0.4	4.5	0.3	0.6	3.0	10.2	8.1	18.1	0.4	CC	(D)
3369	Nonferrous foundries, n.e.c.	E1	8	1	0.2	2.0	0.1	0.3	1.4	3.7	3.5	7.2	(Z)	BB	(D)
339	Miscellaneous primary metal products	E2	30	10	0.7	10.0	0.5	1.0	8.1	23.9	12.1	35.7	2.0	CC	(D)
3398	Metal heat treating	E2	21	7	0.4	8.0	0.3	0.8	3.6	14.6	4.2	18.5	1.3	CC	(D)
3399	Primary metal products, n.e.c.	E2	9	3	0.2	4.0	0.2	0.4	2.5	9.4	7.9	17.3	0.7	AA	(D)
34	**Fabricated metal products**	-	**835**	**351**	**51.7**	**715.6**	**39.5**	**78.3**	**504.5**	**1 498.0**	**1 602.9**	**3 079.8**	**78.9**	**52.9**	**984.8**
341	Metal cans and shipping containers	-	18	15	3.9	72.2	3.4	7.1	59.7	214.8	329.9	536.7	4.0	3.0	89.3
3411	Metal cans	-	17	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3412	Metal barrels, drums, and pails	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
342	Cutlery, hand tools, and hardware	-	66	29	6.2	85.3	4.6	8.7	57.7	209.9	187.1	396.4	10.8	5.2	127.1
3423	Hand and edge tools, n.e.c.	-	26	11	1.9	28.2	1.3	2.3	16.0	71.7	102.1	173.7	4.1	EE	(D)
3429	Hardware, n.e.c.	-	38	18	4.3	56.9	3.3	6.4	41.7	137.9	84.8	222.2	8.7	FF	(D)
343	Plumbing and heating, except electric	-	32	12	3.7	54.3	3.1	7.3	44.9	125.2	107.3	237.3	4.4	4.2	85.6
3431	Metal sanitary ware	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3432	Plumbing fittings and brass goods	-	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3433	Heating equipment, except electric	-	24	7	1.2	13.9	1.0	1.9	10.0	30.2	45.2	73.4	(D)	1.1	21.9
344	Fabricated structural metal products	-	253	104	10.4	143.8	7.2	14.4	91.0	281.7	355.9	622.6	14.4	10.2	183.9
3441	Fabricated structural metal	-	53	25	2.3	33.5	1.6	3.2	20.3	69.6	82.9	144.5	3.6	2.2	41.3
3442	Metal doors, sash, and trim	-	30	12	1.0	10.8	0.8	1.6	7.1	20.7	29.6	49.6	1.1	0.7	9.3
3443	Fabricated plate work (boiler shops)	E1	60	35	3.8	51.8	2.7	5.2	35.5	99.0	88.3	182.7	4.3	4.2	66.8
3444	Sheet metal work	-	76	28	2.5	35.8	1.7	3.4	22.2	66.8	104.1	168.9	4.2	2.6	55.8
3446	Architectural metal work	E2	23	1	0.2	2.3	0.1	0.2	1.0	3.2	2.8	6.0	0.1	BB	(D)
3448	Prefabricated metal buildings	-	5	4	0.5	8.9	0.3	0.7	4.3	20.5	42.1	82.9	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
34	**Fabricated metal products**—Con.														
345	Screw machine products, bolts, etc.	–	82	33	2.5	33.2	2.0	4.1	22.6	89.9	40.7	109.8	8.2	EE	(D)
3451	Screw machine products	–	64	24	1.4	19.0	1.2	2.4	13.0	35.3	21.2	56.0	3.8	EE	(D)
3452	Bolts, nuts, rivets, and washers	–	18	9	1.1	14.3	0.8	1.7	9.6	34.6	19.5	53.8	2.3	0.9	20.9
346	Metal forgings and stampings	–	117	74	15.6	218.2	11.7	22.3	151.8	370.4	420.9	794.8	28.4	15.8	257.1
3462	Iron and steel forgings	–	13	11	5.5	96.6	4.3	7.8	73.0	144.0	174.5	321.1	12.8	FF	(D)
3465	Automotive stampings	–	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	8.3
3469	Metal stampings, n.e.c.	–	97	57	9.0	104.8	6.5	12.9	66.5	194.3	215.2	412.4	13.2	10.2	155.3
347	Metal services, n.e.c.	E1	118	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	23.3
3471	Plating and polishing	E1	87	20	1.5	13.7	1.2	2.4	9.8	22.8	10.7	33.4	1.4	1.2	17.0
3479	Metal coating and allied services	–	31	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	8.3
348	Ordnance and accessories, n.e.c.	–	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3483	Ammunition, except for small arms, n.e.c.	–	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
349	Miscellaneous fabricated metal products	–	141	50	5.7	72.7	4.5	8.5	49.9	161.1	121.2	278.7	8.6	6.4	93.1
3494	Valves and pipe fittings	–	21	10	3.0	41.0	2.4	4.6	29.6	94.6	54.2	148.1	4.0	4.2	82.5
3495	Wire springs	–	4	4	0.2	2.8	0.2	0.3	1.8	5.3	3.5	8.9	0.2	0.3	2.9
3496	Miscellaneous fabricated wire products	–	20	9	0.7	7.1	0.5	1.0	4.4	12.9	10.3	23.0	0.4	0.6	8.1
3498	Fabricated pipe and fittings	–	17	5	0.4	5.4	0.3	0.6	3.7	10.7	17.2	27.4	0.4	0.2	3.6
3499	Fabricated metal products, n.e.c.	–	79	22	1.4	16.3	1.1	2.0	10.5	37.7	36.2	73.3	3.5	1.1	16.0
35	**Machinery, except electrical**	–	**1 512**	**520**	**109.7**	**1 631.7**	**78.0**	**151.7**	**1 068.1**	**3 787.4**	**3 333.9**	**7 027.7**	**199.8**	**97.4**	**1 992.9**
351	Engines and turbines	–	27	25	24.3	370.6	19.7	37.2	292.4	813.0	974.2	1 758.5	31.3	20.3	481.7
3511	Turbines and turbine generator sets	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3519	Internal combustion engines, n.e.c.	–	25	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
352	Farm and garden machinery	–	117	54	14.0	210.3	10.2	19.2	135.7	619.1	682.7	1 289.2	39.1	12.8	306.4
3523	Farm machinery and equipment	–	102	43	9.7	143.3	7.2	13.6	94.8	456.1	482.5	921.4	28.6	7.9	192.6
3524	Lawn and garden equipment	–	15	11	4.3	67.1	2.9	5.6	40.9	163.0	200.1	367.7	10.5	4.8	113.7
353	Construction and related machinery	–	113	70	19.2	293.1	13.5	26.4	192.9	783.0	634.2	1 404.8	49.3	18.6	355.7
3531	Construction machinery	–	53	38	14.8	228.2	10.6	20.8	154.7	627.0	521.5	1 145.6	41.9	11.0	238.6
3532	Mining machinery	–	6	5	2.4	37.6	1.5	2.9	21.6	80.4	56.0	133.9	(D)	2.8	45.5
3535	Conveyors and conveying equipment	–	17	10	0.7	10.7	0.5	1.0	5.7	26.3	23.0	48.6	0.5	0.6	14.0
3536	Hoists, cranes, and monorails	–	14	8	0.8	11.2	0.6	1.1	7.9	39.7	21.2	54.9	(D)	FF	(D)
3537	Industrial trucks and tractors	E1	18	7	0.3	4.1	0.2	0.4	2.4	7.2	11.3	18.2	0.3	BB	(D)
354	Metalworking machinery	–	364	84	10.3	164.7	7.2	14.9	102.5	315.3	162.1	462.0	14.6	10.0	168.6
3541	Machine tools, metal cutting types	–	36	18	3.7	62.9	2.2	4.4	32.8	128.3	60.5	179.6	4.0	3.9	55.6
3544	Special dies, tools, jigs, and fixtures	E1	258	42	3.6	60.9	2.9	6.3	43.9	93.1	35.7	127.5	6.7	3.8	62.3
3545	Machine tool accessories	–	35	11	0.9	11.8	0.7	1.4	8.2	25.9	15.8	40.8	1.7	0.6	12.0
3546	Power driven hand tools	–	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3549	Metalworking machinery, n.e.c.	–	19	10	1.0	15.2	0.7	1.4	8.2	29.0	13.4	37.8	(D)	CC	(D)
355	Special industry machinery	–	150	70	11.3	165.5	6.8	13.3	88.1	347.1	249.4	593.0	14.1	9.9	185.7
3551	Food products machinery	–	50	24	4.2	58.0	2.8	5.6	37.4	106.7	77.7	178.2	4.9	3.0	49.3
3553	Woodworking machinery	E1	17	6	0.7	10.3	0.5	1.0	6.2	19.3	10.3	28.5	0.8	0.7	11.2
3554	Paper industries machinery	–	25	16	4.1	64.7	2.1	4.1	28.9	143.7	99.5	246.7	5.9	FF	(D)
3555	Printing trades machinery	–	17	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	4.0
3559	Special industry machinery, n.e.c.	–	38	16	1.7	24.9	1.0	1.9	11.7	63.1	49.1	111.5	1.8	2.1	52.9
356	General industrial machinery	–	207	83	14.5	211.9	9.7	19.0	129.6	473.6	295.6	758.9	22.2	13.1	272.2
3561	Pumps and pumping equipment	–	29	14	2.5	37.3	1.5	3.1	21.7	88.1	80.0	163.8	5.0	2.3	51.2
3563	Air and gas compressors	–	5	3	0.6	9.5	0.3	0.6	4.0	17.9	22.4	40.3	0.7	BB	(D)
3564	Blowers and fans	–	14	4	0.5	5.7	0.3	0.7	3.7	17.3	15.1	32.3	0.6	0.3	7.3
3565	Industrial patterns	E1	65	7	0.7	11.8	0.6	1.2	9.5	17.8	4.4	22.1	0.5	0.6	10.3
3566	Speed changers, drives, and gears	–	17	9	4.1	60.4	2.8	5.5	38.1	149.2	60.2	206.6	8.1	3.6	68.7
3567	Industrial furnaces and ovens	–	11	8	0.8	9.7	0.4	0.8	4.4	21.4	12.1	32.7	0.5	CC	(D)
3568	Power transmission equipment, n.e.c.	–	15	12	2.6	40.6	1.9	3.5	26.9	90.8	55.4	144.1	4.4	2.2	56.6
3569	General industrial machinery, n.e.c.	–	50	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	60.4

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
35	**Machinery, except electrical**—Con.														
357	Office and computing machines	–	13	5	1.4	21.5	0.9	1.8	10.5	41.5	31.6	69.6	1.8	1.0	19.2
3573	Electronic computing equipment	–	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3574	Calculating and accounting machines	–	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3579	Office machines, n.e.c. and typewriters	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
358	Refrigeration and service machinery	–	68	30	7.8	106.7	4.5	9.2	55.7	228.6	208.8	433.2	16.1	6.6	116.5
3585	Refrigeration and heating equipment	–	28	17	6.3	83.5	3.6	7.4	43.5	158.9	145.6	303.3	12.6	5.3	82.6
3589	Service industry machinery, n.e.c.	–	37	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
359	Miscellaneous machinery, except electrical	E1	453	99	7.0	87.4	5.5	10.8	60.7	166.2	95.4	258.5	11.2	5.1	86.8
3592	Carburetors, pistons, rings, and valves	–	5	4	1.0	10.8	0.8	1.5	8.3	29.9	21.8	51.2	1.1	BB	(D)
3599	Machinery, except electrical, n.e.c.	E1	448	95	6.0	76.5	4.8	9.2	52.4	136.4	73.6	207.3	10.1	FF	(D)
36	**Electric and electronic equipment**	–	**315**	**157**	**51.1**	**871.8**	**34.9**	**88.2**	**397.5**	**1 448.4**	**1 111.7**	**2 503.0**	**84.2**	**48.0**	**828.8**
361	Electric distributing equipment	–	31	17	5.8	76.2	4.1	7.8	47.4	202.3	166.9	359.8	26.0	4.7	95.6
3612	Transformers	–	16	12	4.2	49.4	3.1	5.8	32.0	130.5	122.4	245.4	23.7	FF	(D)
3613	Switchgear and switchboard apparatus	–	15	5	1.7	26.7	1.0	2.0	15.5	71.8	44.6	114.4	(D)	EE	(D)
362	Electrical industrial apparatus	–	85	48	21.5	296.6	14.2	29.3	175.6	591.5	382.8	955.6	25.3	19.8	316.8
3621	Motors and generators	–	37	24	7.4	88.8	5.2	9.9	56.3	179.0	139.2	315.2	14.0	5.2	81.2
3622	Industrial controls	–	34	18	12.2	179.8	7.6	16.3	100.3	353.3	168.7	510.5	10.2	13.0	208.3
3623	Welding apparatus, electric	–	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3624	Carbon and graphite products	–	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
363	Household appliances	–	24	20	8.4	102.8	5.6	10.7	59.1	258.8	247.1	496.3	9.9	7.9	136.5
3631	Household cooking equipment	–	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3632	Household refrigerators and freezers	–	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3633	Household laundry equipment	–	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3634	Electric housewares and fans	–	9	8	4.5	54.8	2.6	5.0	27.1	129.9	119.0	242.1	3.8	4.2	72.6
3639	Household appliances, n.e.c.	–	6	4	1.4	18.4	1.1	2.0	12.3	58.0	48.6	106.2	(D)	EE	(D)
364	Electric lighting and wiring equipment	–	30	13	2.0	23.5	1.4	2.7	12.8	38.0	48.7	85.0	3.2	2.0	28.8
3644	Noncurrent-carrying wiring devices	–	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3645	Residential lighting fixtures	–	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	7.8
3648	Lighting equipment, n.e.c.	–	7	3	0.5	5.7	0.4	0.7	2.7	7.0	16.3	23.4	(D)	BB	(D)
365	Radio and TV receiving equipment	–	9	4	0.9	6.4	0.7	1.3	4.9	14.6	12.0	25.7	2.9	0.5	3.7
3651	Radio and TV receiving sets	–	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3652	Phonograph records and prerecorded tape	–	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
366	Communication equipment	–	29	11	2.7	39.2	1.9	3.7	24.6	57.6	56.1	118.7	4.2	3.4	51.4
3661	Telephone and telegraph apparatus	–	6	2	0.5	4.4	0.4	0.8	3.5	2.4	11.1	13.3	0.1	BB	(D)
3662	Radio and TV communication equipment	–	23	9	2.2	34.8	1.5	2.9	21.1	55.2	45.0	105.4	4.1	FF	(D)
367	Electronic components and accessories	E1	64	20	2.6	24.6	2.1	3.8	16.2	58.9	33.7	91.1	2.9	3.1	44.8
3675	Electronic capacitors	–	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3676	Electronic resistors	–	4	3	0.2	2.1	0.2	0.4	1.4	4.2	4.0	8.1	0.4	(NA)	(NA)
3677	Electronic coils and transformers	–	6	3	0.4	2.5	0.3	0.5	1.7	3.7	3.1	8.8	0.1	0.7	5.6
3679	Electronic components, n.e.c.	E1	45	12	1.4	15.1	1.1	2.0	9.0	42.5	22.8	64.3	1.9	EE	(D)
369	Miscellaneous electrical equipment and supplies	–	43	24	7.2	102.3	4.9	9.1	56.9	224.7	164.4	370.8	9.6	FF	(D)
3691	Storage batteries	–	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3692	Primary batteries, dry and wet	–	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3693	X-ray, electromedical, and electrotheraputic apparatus	–	11	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3694	Engine electrical equipment	–	11	6	0.7	8.0	0.6	1.0	5.6	20.3	12.5	32.9	0.5	1.5	21.7
3699	Electrical equipment and supplies, n.e.c.	–	13	2	0.2	2.0	0.2	0.3	1.1	3.8	3.1	6.8	0.1	0.4	4.7

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	All employees[2] (1,000)	Value added by manufacture (million dollars)
37	**Transportation equipment**	–	**178**	**75**	**37.0**	**575.0**	**30.4**	**54.8**	**444.8**	**1 494.1**	**3 128.8**	**4 824.4**	**48.4**	**34.1**	**788.0**
371	Motor vehicles and equipment	–	90	45	32.0	518.3	26.3	47.0	402.3	1 347.2	2 983.5	4 337.1	(D)	27.8	682.7
3711	Motor vehicles and car bodies	–	16	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3713	Truck and bus bodies	–	22	11	1.2	15.2	0.9	1.8	10.7	29.7	41.2	69.6	1.2	(NA)	(NA)
3714	Motor vehicle parts and accessories	–	44	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3715	Truck trailers	–	8	6	1.3	19.7	0.9	1.8	12.4	37.6	51.4	89.4	0.5	AA	(D)
372	Aircraft and parts	–	7	3	0.3	4.0	0.3	0.5	3.0	8.2	9.4	16.3	(D)	BB	(D)
3724	Aircraft engines and engine parts	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
373	Ship and boat building and repairing	–	49	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	21.1
3731	Ship building and repairing	–	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	11.1
3732	Boat building and repairing	E1	43	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	10.1
3743	Railroad equipment	–	5	3	0.3	3.7	0.2	0.3	2.5	10.6	7.1	17.5	(D)	BB	(D)
3751	Motorcycles, bicycles, and parts	E2	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
379	Miscellaneous transportation equipment	–	21	8	0.7	7.5	0.5	1.0	4.9	15.6	23.7	40.1	(D)	1.0	15.9
3792	Travel trailers and campers	E1	13	4	0.4	3.4	0.3	0.5	2.6	6.4	14.3	21.0	0.3	0.5	5.5
3799	Transportation equipment, n.e.c.	–	8	4	0.3	4.1	0.2	0.4	2.2	9.2	9.5	19.1	(D)	0.5	10.3
38	**Instruments and related products**	–	**119**	**50**	**9.9**	**111.2**	**6.6**	**13.0**	**82.5**	**234.0**	**164.0**	**396.1**	**12.2**	**7.1**	**120.9**
3811	Engineering and scientific instruments	–	11	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	34.4
382	Measuring and controlling devices	–	40	15	2.4	29.7	1.6	3.3	17.1	61.8	29.9	91.4	3.4	1.9	38.4
3823	Process control instruments	E1	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	4.3
3824	Fluid meters and counting devices	–	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3825	Instruments to measure electricity	E1	10	5	0.6	4.3	0.5	1.0	3.1	6.6	4.8	12.2	(D)	CC	(D)
3829	Measuring and controlling devices, n.e.c.	–	17	4	0.3	3.5	0.2	0.5	1.9	8.7	5.1	13.6	(D)	(NA)	(NA)
3832	Optical instruments and lenses	–	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
384	Medical instruments and supplies	–	43	17	2.8	29.5	2.1	4.4	20.0	68.7	57.7	127.4	3.7	1.2	24.6
3841	Surgical and medical instruments	–	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	19.7
3842	Surgical appliances and supplies	–	25	8	1.1	11.0	0.8	1.7	7.5	17.7	22.5	40.3	0.5	0.3	4.2
3843	Dental equipment and supplies	–	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3861	Photographic equipment and supplies	–	12	7	1.1	11.8	0.8	1.4	5.8	28.9	26.1	52.7	0.8	BB	(D)
3873	Watches, clocks, and watchcases	–	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
39	**Miscellaneous manufacturing industries**	–	**350**	**96**	**10.4**	**97.3**	**8.0**	**14.5**	**62.0**	**237.6**	**191.7**	**427.4**	**9.0**	**12.8**	**204.0**
3931	Musical instruments	–	14	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
394	Toys and sporting goods	–	91	33	3.1	23.7	2.6	4.7	16.9	60.4	54.1	114.9	(D)	5.5	72.2
3944	Games, toys, and children's vehicles	E1	19	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	42.5
3949	Sporting and athletic goods, n.e.c.	–	71	23	2.1	16.5	1.8	3.3	11.7	43.6	35.5	79.2	2.0	EE	(D)
395	Pens, pencils, office and art supplies	–	17	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3951	Pens and mechanical pencils	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3953	Marking devices	–	12	1	0.2	0.6	0.1	0.2	0.3	4.7	1.2	5.9	(D)	(NA)	(NA)
396	Costume jewelry and notions	–	20	6	0.4	2.4	0.3	0.5	1.8	5.4	2.2	7.5	(D)	AA	(D)
3962	Artificial flowers	E1	11	3	0.2	0.8	0.1	0.1	0.5	1.7	0.5	2.1	(D)	(NA)	(NA)
3964	Needles, pins, and fasteners	–	4	3	0.2	1.6	0.2	0.3	1.3	3.5	1.7	5.2	(D)	(NA)	(NA)
399	Miscellaneous manufactures	–	196	47	5.5	55.1	3.8	6.9	29.6	109.0	105.2	213.8	(D)	5.4	94.2
3991	Brooms and brushes	–	14	7	0.9	9.5	0.6	1.4	5.0	22.5	26.0	48.1	(D)	CC	(D)
3993	Signs and advertising displays	–	91	19	1.7	19.2	1.3	2.5	11.2	34.7	28.1	62.8	1.6	2.0	34.5
3995	Burial caskets	–	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.5
3999	Manufacturing industries, n.e.c.	–	84	18	2.7	24.8	1.8	2.8	12.4	48.7	47.2	95.7	(D)	2.3	40.8
–	**Administrative and auxiliary**	–	**197**	**122**	**23.1**	**419.9**	–	–	–	–	–	–	–	**(NA)**	**(NA)**

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Milwaukee-Racine SCSA ----	-	**3 264**	**1 288**	**231.3**	**3 428.3**	**156.2**	**302.8**	**2 094.8**	**7 389.5**	**7 034.5**	**14 297.3**	**444.7**	**226.1**	**4 286.4**
20	Food and kindred products --	-	189	97	18.4	291.2	12.1	24.6	189.7	808.8	1 450.5	2 258.6	83.2	18.5	473.6
202	Dairy products ----------	-	23	9	1.1	16.5	0.6	1.3	9.2	61.9	183.5	244.2	3.6	(NA)	(NA)
2026	Fluid milk ----------	-	9	5	0.6	9.4	0.2	0.6	4.0	25.0	96.7	121.6	2.4	(NA)	(NA)
233	Women's and misses' outerwear ----------	-	7	5	0.9	9.5	0.7	1.4	5.4	17.9	16.2	34.1	(D)	(NA)	(NA)
25	Furniture and fixtures-------	-	56	16	1.1	13.2	0.8	1.6	8.2	28.7	23.3	51.7	0.9	(NA)	(NA)
27	Printing and publishing -----	-	424	107	14.0	187.5	8.2	15.8	111.4	364.2	247.8	608.0	18.4	13.1	216.2
275	Commercial printing ------	-	253	50	6.1	90.6	4.6	9.0	64.1	163.3	131.4	292.5	12.6	(NA)	(NA)
2752	Commercial printing, lithographic ----------	-	120	34	4.3	67.7	3.2	6.5	48.9	127.2	95.4	220.3	10.4	(NA)	(NA)
283	Drugs ----------	-	7	6	0.4	5.5	0.2	0.3	1.9	15.7	12.2	27.6	(D)	(NA)	(NA)
2844	Toilet preparations -----	E1	4	2	0.3	2.1	0.2	0.4	1.5	4.8	2.1	6.9	0.1	(NA)	(NA)
289	Miscellaneous chemical products ----------	E1	50	18	1.2	17.2	0.6	1.3	7.5	39.6	55.8	96.5	1.3	(NA)	(NA)
2891	Adhesives and sealants -	-	11	4	0.5	6.8	0.3	0.7	3.6	14.1	23.7	38.7	(D)	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products--------	E1	28	5	0.6	7.1	0.4	0.8	4.5	15.1	16.8	32.0	(D)	(NA)	(NA)
33	Primary metal industries ----	-	129	78	14.8	215.5	12.1	24.1	163.6	407.2	324.7	725.5	40.8	14.2	230.4
331	Blast furnace and basic steel products----------	-	8	4	1.3	23.0	1.2	2.6	19.6	40.7	72.8	113.4	(D)	(NA)	(NA)
34	Fabricated metal products---	-	438	190	29.8	442.1	22.9	44.0	314.5	900.4	953.8	1 831.1	44.7	29.2	535.5
344	Fabricated structural metal products ---------	-	120	50	6.0	86.7	3.9	7.6	52.8	166.9	203.6	358.7	8.0	(NA)	(NA)
345	Screw machine products, bolts, etc. ----------	-	52	21	1.5	19.7	1.2	2.4	13.4	38.5	26.6	64.4	2.8	(NA)	(NA)
346	Metal forgings and stampings ----------	-	74	47	9.1	146.4	7.1	13.2	106.1	241.1	271.3	513.1	17.8	(NA)	(NA)
3471	Plating and polishing ---	E2	47	11	0.9	8.6	0.7	1.3	6.0	14.6	6.5	21.1	(D)	(NA)	(NA)
3499	Fabricated metal products, n.e.c. -------	-	45	10	0.7	9.5	0.6	1.1	6.3	21.7	21.3	42.7	(D)	(NA)	(NA)
35	Machinery, except electrical -	-	820	279	62.6	974.1	45.1	86.7	653.1	2 228.1	1 806.7	3 985.8	118.6	56.8	1 202.2
354	Metalworking machinery---	-	245	57	7.2	118.8	5.1	10.4	74.4	221.2	116.9	328.2	10.1	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures ----------	E1	173	32	3.0	51.7	2.4	5.1	37.0	77.5	29.7	106.2	5.3	(NA)	(NA)
356	General industrial machinery----------	-	117	45	10.1	154.4	6.7	12.9	93.1	343.9	191.3	530.3	(D)	(NA)	(NA)
358	Refrigeration and service machinery----------	-	30	11	1.8	28.5	1.1	2.3	15.0	78.2	72.8	151.3	3.6	(NA)	(NA)
3585	Refrigeration and heating equipment ----	E1	12	5	0.9	12.6	0.5	1.3	6.5	23.9	27.3	53.2	(D)	(NA)	(NA)
3589	Service industry machinery, n.e.c.------	-	18	6	0.9	15.9	0.5	1.0	8.5	54.2	45.5	98.1	(D)	(NA)	(NA)
36	Electric and electronic equipment ----------	-	185	89	33.9	483.2	22.1	43.0	274.0	1 018.8	665.0	1 643.9	61.4	34.4	605.7
361	Electric distributing equipment----------	-	19	9	3.3	55.2	2.0	3.8	32.3	165.7	108.2	265.6	(D)	(NA)	(NA)
38	Instruments and related products----------	-	57	24	4.1	49.5	2.4	4.8	23.3	101.7	72.3	170.6	6.6	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	141	41	3.3	34.2	2.4	4.6	19.3	75.6	73.1	148.5	2.9	(NA)	(NA)
3949	Sporting and athletic goods, n.e.c. ---------	-	23	9	0.5	4.3	0.4	0.7	2.9	11.8	12.3	23.9	(D)	(NA)	(NA)
3991	Brooms and brushes ---	-	7	5	0.7	7.7	0.5	1.1	3.9	18.0	22.3	40.0	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Appleton-Oshkosh SMSA	-	**500**	**237**	**42.9**	**582.2**	**30.9**	**81.8**	**375.9**	**1 388.9**	**1 905.2**	**3 233.2**	**96.3**	**38.4**	**723.8**
20	Food and kindred products	-	76	36	3.8	41.1	2.7	5.3	25.8	143.5	420.0	559.8	13.3	2.8	56.9
202	Dairy products	-	33	15	1.1	13.4	0.9	1.9	10.2	85.1	245.2	307.4	4.0	0.9	29.2
203	Preserved fruits and vegetables	-	11	9	1.2	10.5	0.8	1.6	6.5	28.3	27.9	54.0	3.4	0.9	14.5
22	Textile mill products	-	7	5	1.4	15.5	1.1	2.3	10.5	40.0	29.8	66.8	(D)	(NA)	(NA)
24	Lumber and wood products	-	26	12	1.6	17.0	1.3	3.0	13.2	34.1	66.9	99.7	(D)	1.2	21.4
25	Furniture and fixtures	-	13	4	0.8	6.8	0.7	1.3	5.3	13.1	10.8	22.4	(D)	0.8	8.8
26	Paper and allied products	-	54	44	12.2	184.5	9.5	19.7	135.0	497.8	706.2	1 191.4	40.8	11.3	265.8
2621	Paper mills, except building paper	-	13	13	4.7	74.2	3.8	8.1	57.8	191.8	275.7	481.2	(D)	4.8	104.6
264	Miscellaneous converted paper products	-	26	19	5.7	83.4	4.3	8.8	57.9	253.4	349.5	597.2	(D)	4.9	124.8
265	Paperboard containers and boxes	-	12	9	1.3	19.4	1.0	2.0	13.5	39.1	57.2	95.8	(D)	1.3	26.8
27	Printing and publishing	-	84	23	2.5	33.9	1.8	2.9	19.6	60.0	53.1	111.8	4.5	3.1	52.8
275	Commercial printing	E1	51	14	1.0	13.4	0.8	1.5	9.5	22.9	16.8	39.4	2.6	1.8	21.9
2751	Commercial printing, letterpress	-	24	4	0.4	3.9	0.3	0.6	2.7	8.1	8.9	17.0	(D)	(NA)	(NA)
2752	Commercial printing, lithographic	E2	23	6	0.4	5.0	0.3	0.6	3.5	7.4	5.4	12.7	0.8	0.3	4.5
30	Rubber and miscellaneous plastics products	-	8	6	0.7	10.1	0.4	0.9	5.5	33.6	35.4	66.9	(D)	0.8	23.5
32	Stone, clay, and glass products	-	24	6	0.3	4.7	0.2	0.4	2.4	8.3	14.2	22.3	1.0	0.3	5.5
33	Primary metal industries	-	10	7	3.4	49.5	2.6	5.1	35.0	115.2	69.9	183.6	10.4	2.9	61.1
332	Iron and steel foundries	-	4	4	2.8	39.5	2.2	4.2	28.9	95.2	55.9	150.1	(D)	2.2	44.6
3321	Gray iron foundries	-	4	4	2.8	39.5	2.2	4.2	28.9	95.2	55.9	150.1	(D)	2.2	44.6
34	Fabricated metal products	-	39	15	1.2	14.1	0.9	2.0	9.7	30.4	33.9	64.5	1.0	1.3	17.2
346	Metal forgings and stampings	-	6	4	0.6	7.2	0.5	1.1	5.4	17.7	18.5	36.4	0.4	(NA)	(NA)
35	Machinery, except electrical	-	74	36	6.7	96.5	5.1	9.8	67.8	235.7	268.4	497.3	8.8	6.4	133.6
352	Farm and garden machinery	-	12	8	1.5	20.3	1.0	1.9	11.8	65.0	65.9	129.4	(D)	(NA)	(NA)
353	Construction and related machinery	-	11	6	1.7	26.3	1.3	2.4	17.9	72.9	73.4	143.8	(D)	1.7	41.4
355	Special industry machinery	-	11	6	0.7	9.8	0.4	0.9	6.2	21.7	8.4	28.6	(D)	0.6	9.4
36	Electric and electronic equipment	-	14	11	2.4	29.3	1.8	3.6	19.8	73.7	92.0	160.0	(D)	1.5	25.6
37	Transportation equipment	-	7	4	1.5	19.6	1.0	1.9	12.8	40.1	57.4	95.7	(D)	1.2	12.7
39	Miscellaneous manufacturing industries	-	19	7	1.3	9.3	1.0	1.9	6.3	21.4	20.1	41.2	0.6	1.2	14.0
–	Administrative and auxiliary	-	12	11	2.1	38.9	–	–	–	–	–	–	–	(NA)	(NA)
	Duluth-Superior, Minn.-Wis., SMSA	-	**299**	**79**	**9.4**	**110.9**	**8.7**	**12.7**	**70.8**	**260.2**	**483.4**	**735.8**	**(D)**	**10.4**	**165.5**
20	Food and kindred products	E1	29	15	1.9	18.3	1.5	3.2	12.9	58.4	117.3	176.3	6.0	2.5	49.4
24	Lumber and wood products	-	66	8	0.9	10.2	0.7	1.3	7.4	21.3	17.6	39.1	1.9	0.9	17.0
249	Miscellaneous wood products	-	8	5	0.7	8.8	0.6	1.0	6.2	18.9	14.2	33.2	(D)	0.6	12.0
27	Printing and publishing	-	51	11	1.5	17.0	0.6	0.8	5.7	34.8	13.1	49.0	1.8	1.2	21.3
275	Commercial printing	-	28	6	0.4	4.1	0.3	0.4	2.7	8.8	3.0	9.8	0.8	0.3	3.9
32	Stone, clay, and glass products	-	28	5	0.3	4.7	0.2	0.5	3.5	23.7	20.4	44.2	1.7	0.5	13.0
33	Primary metal industries	-	8	5	0.5	8.2	0.4	0.8	6.6	9.6	40.7	50.4	0.9	(NA)	(NA)
34	Fabricated metal products	-	21	10	1.2	16.4	1.0	2.0	12.7	33.2	34.2	66.4	2.6	1.9	19.0
344	Fabricated structural metal products	-	10	4	0.4	6.2	0.3	0.6	4.1	13.6	22.9	35.3	(D)	(NA)	(NA)
35	Machinery, except electrical	-	27	11	1.3	17.6	0.9	1.8	11.0	36.4	44.8	78.0	1.2	0.9	16.6
353	Construction and related machinery	-	8	7	1.0	13.5	0.6	1.3	8.2	28.5	39.9	65.4	(D)	0.6	11.6
	Eau Claire SMSA	-	**177**	**57**	**8.7**	**114.4**	**6.5**	**13.5**	**85.1**	**271.5**	**428.8**	**888.9**	**19.0**	**5.2**	**141.4**
20	Food and kindred products	-	31	15	1.5	18.6	1.1	2.2	13.3	44.1	189.6	231.7	2.7	(NA)	(NA)
202	Dairy products	-	12	5	0.4	4.8	0.3	0.5	2.8	14.5	87.5	101.0	1.6	(NA)	(NA)
31	Leather and leather products	-	5	3	1.0	8.7	0.4	1.4	5.3	20.3	26.1	46.0	(D)	(NA)	(NA)
3143	Men's footwear, except athletic	-	3	3	1.0	8.5	0.4	1.3	5.2	20.0	25.9	45.6	(D)	(NA)	(NA)
34	Fabricated metal products	-	16	4	0.6	7.0	0.5	1.0	5.9	17.0	19.4	36.0	(D)	(NA)	(NA)
35	Machinery, except electrical	-	19	10	0.9	11.8	0.7	1.3	7.6	31.3	32.0	61.9	1.5	(NA)	(NA)
39	Miscellaneous manufacturing industries	E2	12	3	0.3	1.6	0.2	0.4	0.8	2.8	2.0	4.7	0.1	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Green Bay SMSA	–	**279**	**111**	**20.3**	**290.9**	**14.9**	**29.9**	**199.4**	**874.9**	**1 897.6**	**2 588.3**	**140.1**	**17.5**	**383.6**
20	Food and kindred products	–	49	25	4.2	54.6	3.2	6.5	38.7	156.2	779.4	937.0	7.4	3.8	76.0
201	Meat products	–	9	7	1.2	18.2	0.9	2.0	12.0	45.6	333.0	375.8	1.0	(NA)	(NA)
202	Dairy products	–	24	10	1.8	24.6	1.4	2.7	19.0	70.3	403.7	478.5	5.4	1.7	39.6
24	Lumber and wood products	–	23	10	0.4	4.2	0.4	0.7	3.1	8.3	11.6	19.7	0.5	(NA)	(NA)
26	Paper and allied products	–	21	18	7.5	127.5	5.8	12.2	95.9	489.6	698.8	1 180.7	121.7	6.9	186.6
264	Miscellaneous converted paper products	–	12	10	4.0	64.3	3.1	6.6	50.3	289.4	436.9	717.8	(D)	(NA)	(NA)
27	Printing and publishing	–	48	7	1.3	15.5	0.8	1.5	9.0	32.9	37.2	70.6	1.5	1.2	22.6
275	Commercial printing	–	30	3	0.4	4.3	0.3	0.5	3.2	8.9	10.7	19.6	0.4	0.4	6.1
32	Stone, clay, and glass products	E2	17	4	0.3	3.9	0.2	0.4	2.7	9.1	11.6	19.9	0.8	0.4	5.5
33	Primary metal industries	E1	9	6	0.4	5.2	0.3	0.5	3.4	11.7	27.1	38.4	0.8	(NA)	(NA)
34	Fabricated metal products	–	19	10	0.7	9.0	0.5	1.2	6.0	30.0	21.3	51.4	0.6	0.6	12.2
35	Machinery, except electrical	–	42	13	3.0	45.0	2.0	3.8	27.3	90.8	50.5	143.1	3.5	2.5	50.0
355	Special industry machinery	–	11	6	1.7	28.8	1.1	2.1	15.4	49.3	30.3	79.2	2.0	0.9	18.7
39	Miscellaneous manufacturing industries	E1	8	1	0.3	0.5	0.2	0.2	0.3	1.0	0.9	2.0	0.1	(NA)	(NA)
3999	Manufacturing industries, n.e.c.	–	3	1	0.3	0.1	0.2	0.2	0.1	0.3	0.3	0.6	(D)	(NA)	(NA)
–	Administrative and auxiliary	–	6	5	0.3	6.9	–	–	–	–	–	–	–	(NA)	(NA)
	Kenosha SMSA	–	**145**	**44**	**17.7**	**248.2**	**13.1**	**21.4**	**170.2**	**418.6**	**1 058.0**	**1 480.3**	**14.8**	**15.8**	**382.5**
20	Food and kindred products	–	12	4	0.4	5.3	0.3	0.6	3.8	32.1	40.5	72.4	(D)	0.4	16.9
27	Printing and publishing	–	20	3	0.3	3.3	0.2	0.3	1.3	6.4	2.1	8.5	(D)	0.3	5.0
32	Stone, clay, and glass products	–	9	4	0.3	2.2	0.2	0.4	1.2	3.3	4.8	8.1	0.3	(NA)	(NA)
35	Machinery, except electrical	–	35	7	1.2	18.3	0.8	1.5	10.7	34.3	22.9	55.0	(D)	(NA)	(NA)
	La Crosse SMSA	–	**129**	**39**	**9.4**	**111.8**	**8.1**	**12.1**	**84.0**	**244.4**	**223.9**	**467.3**	**21.6**	**8.4**	**123.9**
20	Food and kindred products	–	18	5	1.0	14.3	0.6	1.3	7.6	54.6	75.9	135.5	5.3	0.9	24.4
24	Lumber and wood products	–	12	3	0.4	3.2	0.3	0.6	2.5	5.7	6.9	12.5	(D)	(NA)	(NA)
27	Printing and publishing	E1	25	6	0.7	6.3	0.4	0.9	3.6	12.4	5.4	17.8	1.3	0.3	5.1
275	Commercial printing	E2	17	5	0.5	4.4	0.4	0.7	2.9	7.2	4.2	11.5	1.2	(NA)	(NA)
2751	Commercial printing, letterpress	–	10	3	0.3	3.0	0.3	0.6	2.0	4.9	2.4	7.3	(D)	(NA)	(NA)
34	Fabricated metal products	–	12	8	0.8	9.1	0.7	1.4	7.2	23.9	13.4	36.3	0.8	0.5	7.8
39	Miscellaneous manufacturing industries	–	9	2	0.4	4.1	0.4	0.8	3.1	9.2	4.0	11.6	(D)	0.5	6.5
	Madison SMSA	–	**436**	**132**	**18.2**	**264.5**	**12.3**	**24.4**	**160.3**	**538.7**	**882.7**	**1 414.2**	**34.3**	**16.2**	**300.0**
20	Food and kindred products	–	57	27	5.4	90.5	4.2	8.3	68.5	194.1	569.2	763.4	9.4	6.0	114.7
202	Dairy products	–	19	11	0.8	7.7	0.4	0.9	4.9	24.5	183.7	207.9	1.9	0.7	14.4
2026	Fluid milk	–	8	3	0.3	3.5	0.1	0.3	2.1	7.5	87.9	95.4	0.8	0.4	10.2
24	Lumber and wood products	–	20	5	0.9	11.5	0.8	1.7	9.1	32.8	35.3	66.8	1.8	(NA)	(NA)
27	Printing and publishing	–	109	18	1.9	24.8	1.2	2.2	15.5	53.2	32.9	85.7	4.6	1.7	33.9
275	Commercial printing	–	50	9	0.8	8.3	0.5	0.8	5.4	14.6	12.6	27.0	1.7	0.7	10.7
28	Chemicals and allied products	E1	19	7	0.4	5.9	0.3	0.5	3.2	20.4	34.0	53.6	(D)	0.4	12.6
30	Rubber and miscellaneous plastics products	–	20	10	0.8	8.1	0.6	1.2	5.6	27.0	21.0	47.6	4.7	(NA)	(NA)
32	Stone, clay, and glass products	E1	19	8	0.6	7.4	0.5	1.0	5.8	18.4	12.0	28.6	0.7	0.6	11.7
33	Primary metal industries	–	9	5	0.7	8.9	0.8	1.2	7.3	14.8	9.6	24.5	0.9	0.6	9.8
34	Fabricated metal products	–	28	11	0.9	11.2	0.8	1.3	7.4	22.6	27.6	49.9	1.0	0.9	19.5
344	Fabricated structural metal products	–	16	8	0.7	8.9	0.5	1.0	5.8	16.7	20.8	36.8	0.8	0.7	16.2
35	Machinery, except electrical	–	55	14	1.5	19.8	0.9	1.9	11.0	38.7	35.5	71.0	2.4	1.2	14.8
36	Electric and electronic equipment	–	15	4	0.8	8.8	0.5	0.9	4.7	17.8	26.9	44.3	1.1	0.5	17.3
38	Instruments and related products	–	12	4	1.0	12.4	0.6	1.3	7.6	43.7	22.5	67.9	0.9	0.8	20.4
–	Administrative and auxiliary	–	18	11	1.7	38.3	–	–	–	–	–	–	–	(NA)	(NA)

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			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Milwaukee SMSA	–	**2 859**	**1 141**	**204.1**	**3 042.5**	**138.7**	**288.8**	**1 882.5**	**8 408.8**	**8 272.7**	**12 554.3**	**389.1**	**200.0**	**3 700.0**
20	Food and kindred products	–	172	90	17.2	280.1	11.3	23.0	181.4	714.2	1 374.6	2 089.8	82.7	17.4	439.3
201	Meat products	E1	32	15	2.5	38.1	2.0	3.8	28.7	70.0	364.4	432.1	2.5	2.2	55.8
2011	Meat packing plants	E2	11	6	1.7	27.7	1.4	2.7	22.0	50.9	318.1	367.2	(D)	1.5	44.4
202	Dairy products	–	23	9	1.1	16.5	0.6	1.3	9.2	81.9	183.5	244.2	3.6	1.5	39.0
2026	Fluid milk	–	9	5	0.6	9.4	0.2	0.6	4.0	25.0	96.7	121.6	2.4	0.9	22.8
204	Grain mill products	–	11	4	0.5	6.4	0.3	0.5	3.3	19.8	46.9	67.6	1.2	0.4	11.2
205	Bakery products	–	25	14	2.8	28.7	1.6	3.1	15.8	70.7	46.3	117.2	1.8	2.3	35.8
208	Beverages	–	32	16	8.1	166.8	5.2	10.8	108.4	408.3	567.8	981.9	68.3	8.3	244.2
209	Miscellaneous foods and kindred products	–	25	15	0.8	9.0	0.5	1.1	5.4	28.1	37.4	64.6	1.8	0.8	17.1
23	Apparel and other textile products	E1	54	26	2.0	18.1	1.6	2.9	11.0	33.8	32.7	66.6	2.0	2.3	24.0
233	Women's and misses' outerwear	–	7	5	0.9	9.5	0.7	1.4	5.4	17.9	16.2	34.1	(D)	1.0	10.9
239	Miscellaneous fabricated textile products	E2	31	12	0.6	4.6	0.5	0.8	3.0	8.5	11.7	20.4	(D)	0.5	5.4
25	Furniture and fixtures	–	50	14	0.9	11.6	0.7	1.3	7.1	25.6	20.1	45.3	0.8	0.7	13.2
254	Partitions and fixtures	–	23	5	0.3	3.7	0.2	0.4	2.4	8.0	7.4	15.3	(D)	0.3	3.9
2541	Wood partitions and fixtures	–	23	5	0.3	3.7	0.2	0.4	2.4	8.0	7.4	15.3	(D)	(NA)	(NA)
259	Miscellaneous furniture and fixtures	–	14	5	0.4	4.4	0.3	0.5	2.4	8.7	6.6	15.1	(D)	(NA)	(NA)
26	Paper and allied products	–	57	37	3.8	49.1	2.8	5.6	32.0	98.8	120.9	218.8	7.7	4.1	85.2
265	Paperboard containers and boxes	–	30	24	2.8	35.6	2.1	4.0	23.7	67.7	90.6	157.7	(D)	2.9	48.8
2651	Folding paperboard boxes	–	6	5	0.5	6.4	0.4	0.8	4.5	15.0	13.4	28.2	(D)	0.7	12.5
2653	Corrugated and solid fiber boxes	–	17	13	1.6	22.6	1.2	2.4	14.9	41.4	60.6	101.6	4.0	1.7	25.8
27	Printing and publishing	–	388	98	12.3	165.5	7.3	14.1	101.1	317.7	212.9	527.4	17.2	12.3	201.7
2711	Newspapers	–	36	13	3.7	40.2	1.2	2.3	18.6	87.1	36.2	123.2	2.2	3.9	55.4
2721	Periodicals	E1	29	7	0.4	4.8	0.1	0.2	1.1	11.8	5.8	17.3	(D)	0.5	9.3
273	Books	–	18	7	0.9	12.9	0.6	1.1	8.4	28.3	24.0	51.8	0.6	0.6	12.2
275	Commercial printing	–	232	45	5.7	86.7	4.3	8.4	61.9	156.8	127.3	282.0	12.3	5.9	104.1
2752	Commercial printing, lithographic	–	111	32	4.2	66.1	3.1	6.3	47.8	124.7	93.6	216.1	10.3	4.3	81.3
278	Blankbooks and bookbinding	–	15	8	0.8	9.1	0.5	1.1	5.5	14.0	7.0	20.9	(D)	0.8	9.9
279	Printing trade services	–	45	9	0.5	7.9	0.4	0.7	5.8	12.0	2.7	14.6	0.6	0.4	7.6
28	Chemicals and allied products	–	117	49	3.8	52.8	2.0	4.0	22.7	134.4	177.3	310.9	9.1	3.8	95.4
283	Drugs	–	7	6	0.4	5.5	0.2	0.3	1.9	15.7	12.2	27.6	(D)	(NA)	(NA)
284	Soaps, cleaners, and toilet goods	E2	23	9	0.6	5.9	0.3	0.7	3.3	17.8	14.8	32.5	0.5	(NA)	(NA)
2844	Toilet preparations	E1	4	2	0.3	2.1	0.2	0.4	1.5	4.8	2.1	6.9	0.1	(NA)	(NA)
2851	Paints and allied products	–	11	4	0.6	10.6	0.3	0.6	4.2	22.3	47.7	69.3	(D)	0.7	18.8
289	Miscellaneous chemical products	E1	50	18	1.2	17.2	0.6	1.3	7.5	39.6	55.8	96.5	1.3	0.9	23.5
2891	Adhesives and sealants	–	11	4	0.5	6.8	0.3	0.7	3.6	14.1	23.7	38.7	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	98	54	4.3	48.7	3.4	6.7	33.1	100.3	93.3	192.2	8.4	3.2	45.1
3069	Fabricated rubber products, n.e.c.	–	8	6	0.7	9.5	0.5	1.0	6.2	25.1	9.5	34.3	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	E1	90	48	3.6	39.3	2.9	5.7	26.9	75.2	83.8	157.9	(D)	(NA)	(NA)
31	Leather and leather products	–	45	28	4.0	44.0	3.2	8.1	30.1	93.1	139.2	231.0	(D)	(NA)	(NA)
32	Stone, clay, and glass products	–	109	33	1.8	26.0	1.4	2.8	17.2	61.1	65.0	125.7	(D)	1.7	35.9
327	Concrete, gypsum, and plaster products	–	54	22	0.9	15.1	0.7	1.5	10.4	31.6	39.3	70.2	3.4	0.9	20.6
3272	Concrete products, n.e.c.	E1	19	7	0.4	5.8	0.3	0.7	4.4	9.2	7.6	16.4	0.8	0.4	7.7
3273	Ready-mixed concrete	–	25	11	0.4	6.4	0.3	0.6	4.4	14.6	24.4	38.9	2.2	0.3	7.8
329	Miscellaneous nonmetallic mineral products	E1	28	5	0.6	7.1	0.4	0.8	4.5	15.1	16.8	32.0	(D)	0.5	8.8
33	Primary metal industries	–	107	69	12.4	182.3	10.2	20.3	138.3	346.6	278.9	620.5	32.1	12.0	208.9
331	Blast furnace and basic steel products	–	8	4	1.3	23.0	1.2	2.6	19.6	40.7	72.8	113.4	(D)	(NA)	(NA)
332	Iron and steel foundries	–	41	38	7.6	112.9	6.2	12.1	84.7	210.9	115.9	322.9	15.8	7.0	111.0
3321	Gray iron foundries	–	22	20	2.4	33.9	2.0	3.8	26.0	59.3	43.1	101.8	5.7	2.5	38.8
336	Nonferrous foundries	–	28	17	2.2	28.3	1.8	3.6	21.6	52.5	45.7	98.3	5.4	2.4	44.8
3361	Aluminum foundries	–	22	15	2.1	27.0	1.8	3.4	20.5	50.7	43.5	94.3	(D)	1.5	24.7
34	Fabricated metal products	–	371	162	26.8	402.4	20.7	39.8	287.5	829.2	880.6	1 685.4	39.9	26.8	487.1
341	Metal cans and shipping containers	–	8	7	3.4	62.4	2.9	6.1	51.5	161.9	272.2	426.3	3.6	2.5	65.6
342	Cutlery, hand tools, and hardware	–	24	16	3.6	46.2	2.9	5.3	34.6	115.9	62.3	176.7	5.6	2.9	65.6
343	Plumbing and heating, except electric	–	6	3	0.5	6.6	0.3	0.6	3.3	18.1	14.0	32.5	(D)	0.7	19.8

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Milwaukee SMSA—Con.														
34	Fabricated metal products—Con.														
344	Fabricated structural metal products	-	107	45	5.2	75.7	3.4	6.6	44.7	150.2	166.3	325.9	7.7	5.4	97.4
345	Screw machine products, bolts, etc.	-	39	16	1.2	17.2	1.0	2.0	11.5	33.1	24.1	56.6	2.3	1.2	22.6
346	Metal forgings and stampings	-	60	37	8.3	134.6	6.4	11.9	96.1	219.6	236.7	459.7	15.0	6.2	139.5
3462	Iron and steel forgings	-	7	6	5.1	91.6	4.1	7.3	70.2	132.6	153.4	266.9	11.3	(NA)	(NA)
3469	Metal stampings, n.e.c.	-	50	26	2.5	32.7	1.9	3.6	20.6	66.5	68.1	134.7	3.1	3.2	49.9
3471	Plating and polishing	E2	43	9	0.8	7.9	0.6	1.2	5.5	13.5	6.0	19.5	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	67	23	3.1	41.0	2.6	4.9	30.5	96.2	64.3	159.3	3.8	3.9	52.4
3494	Valves and pipe fittings	-	10	7	2.1	27.0	1.6	3.3	21.3	67.0	35.6	100.0	2.4	2.9	37.9
3499	Fabricated metal products, n.e.c.	-	40	10	0.7	9.1	0.6	1.1	6.1	21.1	20.6	41.4	1.0	0.6	6.3
35	Machinery, except electrical	-	700	245	54.6	848.6	39.1	75.2	569.2	1 917.9	1 514.7	3 361.7	95.6	49.3	1 035.4
351	Engines and turbines	-	13	13	17.2	272.6	13.6	26.2	213.5	531.6	534.6	1 044.2	22.4	13.5	300.9
353	Construction and related machinery	-	63	40	11.4	176.6	7.7	14.5	115.4	480.5	353.9	626.9	27.6	11.5	214.3
354	Metalworking machinery	-	204	50	6.4	107.3	4.5	9.3	67.6	197.5	102.7	290.4	6.7	6.1	107.0
3541	Machine tools, metal cutting types	-	20	10	2.4	40.2	1.4	2.7	21.0	80.9	33.4	105.7	2.2	1.9	29.5
3544	Special dies, tools, jigs, and fixtures	-	147	29	2.6	47.9	2.2	4.6	34.4	71.9	27.9	96.9	5.0	3.0	49.6
355	Special industry machinery	-	54	26	3.0	44.2	1.6	3.5	23.4	96.1	76.7	169.1	5.0	3.0	67.3
3551	Food products machinery	-	10	5	1.1	15.5	0.7	1.4	9.9	26.2	19.2	45.4	2.6	1.2	20.1
3559	Special industry machinery, n.e.c.	-	26	11	1.3	19.1	0.7	1.3	6.6	48.6	39.2	67.5	1.4	1.4	39.0
356	General industrial machinery	-	104	39	6.0	123.1	5.3	10.3	73.5	265.2	154.5	434.9	12.5	7.5	158.1
3565	Industrial patterns	E1	36	5	0.4	6.1	0.4	0.6	6.7	12.0	2.9	14.9	(D)	0.3	5.4
3569	General industrial machinery, n.e.c.	-	17	6	0.6	11.1	0.5	1.1	5.6	22.3	16.9	41.6	(D)	1.0	21.4
358	Refrigeration and service machinery	-	30	11	1.6	26.5	1.1	2.3	15.0	76.2	72.6	151.3	3.6	1.4	39.5
3585	Refrigeration and heating equipment	E1	12	5	0.9	12.6	0.5	1.3	6.5	23.9	27.3	53.2	(D)	0.6	17.1
3589	Service industry machinery, n.e.c.	-	16	6	0.9	15.9	0.5	1.0	6.5	54.2	45.5	96.1	(D)	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E1	217	56	3.2	43.1	2.5	4.9	26.9	77.9	39.7	116.0	5.2	(NA)	(NA)
36	Electric and electronic equipment	-	154	72	31.0	454.0	20.0	39.0	256.6	944.7	606.6	1 511.3	56.9	32.3	566.6
361	Electric distributing equipment	-	19	9	3.3	55.2	2.0	3.6	32.3	165.7	106.2	265.6	(D)	3.5	61.6
362	Electrical industrial apparatus	-	42	25	14.1	207.5	9.0	16.4	119.6	363.4	202.1	570.4	17.5	15.1	234.3
363	Household appliances	-	5	5	4.5	57.1	2.7	5.1	29.6	136.5	126.4	255.9	3.6	(NA)	(NA)
364	Electric lighting and wiring equipment	-	17	7	0.9	10.2	0.7	1.3	5.6	14.6	19.9	34.7	1.3	1.0	15.7
367	Electronic components and accessories	-	34	10	1.6	16.4	1.3	2.4	10.9	44.4	24.6	67.9	2.2	1.6	29.2
3679	Electronic components, n.e.c.	-	22	5	0.6	9.5	0.6	1.1	5.5	31.6	16.6	47.6	1.3	(NA)	(NA)
37	Transportation equipment	-	48	26	11.2	167.0	6.6	15.6	136.4	576.1	545.9	1 126.3	19.3	(NA)	(NA)
38	Instruments and related products	-	49	19	3.7	45.0	2.1	4.1	20.9	93.3	67.1	157.4	5.0	2.1	43.4
382	Measuring and controlling devices	-	16	4	0.9	14.6	0.6	1.2	6.3	32.7	14.3	45.6	(D)	(NA)	(NA)
384	Medical instruments and supplies	-	13	4	0.6	6.2	0.5	1.1	4.3	16.4	16.6	32.7	0.9	(NA)	(NA)
3661	Photographic equipment and supplies	-	6	5	1.0	11.0	0.7	1.3	5.3	25.9	22.6	47.0	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	126	37	3.1	31.6	2.2	4.3	16.1	70.9	70.5	141.2	2.7	3.2	53.5
394	Toys and sporting goods	-	26	11	0.6	5.2	0.4	0.6	3.1	14.3	15.1	29.4	0.4	0.6	6.4
3949	Sporting and athletic goods, n.e.c.	-	23	9	0.5	4.3	0.4	0.7	2.9	11.6	12.3	23.9	(D)	0.5	6.5
399	Miscellaneous manufactures	-	79	23	2.2	24.6	1.6	3.2	13.6	49.6	49.9	99.4	2.2	2.3	41.5
3991	Brooms and brushes	-	7	5	0.7	7.7	0.5	1.1	3.9	16.0	22.3	40.0	(D)	(NA)	(NA)
3993	Signs and advertising displays	-	37	13	1.2	13.6	0.6	1.6	7.6	25.5	21.9	47.6	1.3	1.3	23.1
	Minneapolis-St. Paul, Minn.-Wis., SMSA	-	3 661	1 349	216.9	3 331.3	127.4	245.6	1 562.4	6 408.0	7 407.6	13 645.1	353.3	199.0	3 734.8
20	Food and kindred products	-	237	120	14.6	207.3	9.9	19.6	129.3	575.4	1 572.3	2 156.2	37.9	16.6	415.4
201	Meat products	-	23	14	2.9	46.4	2.3	4.5	37.7	61.6	407.6	486.6	3.6	3.3	55.6
2011	Meat packing plants	-	6	6	1.9	37.5	1.5	3.2	30.6	56.5	339.4	396.3	(D)	2.6	50.5

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Minneapolis-St. Paul, Minn.-Wis., SMSA—Con.													
20	Food and kindred products—Con.													
202	Dairy products	–	37	18	1.7	25.0	0.8	1.8	10.6	82.4	282.1	322.3	8.8	2.3	45.8
2023	Condensed and evaporated milk	E3	8	3	0.4	5.9	0.2	0.4	2.0	15.6	35.8	50.9	(D)	(NA)	(NA)
2026	Fluid milk	–	20	10	0.9	14.4	0.3	0.8	5.0	28.0	154.9	182.7	4.3	1.5	25.8
203	Preserved fruits and vegetables	–	23	9	1.8	15.9	1.3	2.5	11.2	54.5	81.5	138.1	5.5	1.4	21.4
2033	Canned fruits and vegetables	–	8	4	0.5	3.8	0.4	0.8	2.7	11.1	18.8	29.9	0.4	0.7	10.8
204	Grain mill products	–	40	22	1.7	22.8	1.2	2.3	14.9	91.5	250.7	344.2	5.1	1.8	89.1
2041	Flour and other grain mill products	–	10	8	0.6	9.5	0.5	1.0	7.2	33.1	140.8	174.8	(D)	0.8	19.4
2048	Prepared feeds, n.e.c.	–	17	8	0.8	7.8	0.3	0.8	3.4	21.5	80.4	101.8	0.7	0.7	28.9
2051	Bread, cake, and related products	–	33	18	1.8	24.8	1.1	2.2	13.9	50.9	39.2	90.1	1.9	(NA)	(NA)
207	Fats and oils	–	11	7	0.4	8.4	0.3	0.8	4.7	32.4	197.5	242.4	5.2	0.5	21.2
208	Beverages	–	25	13	2.4	37.4	1.3	2.7	20.4	118.5	207.0	324.2	5.4	3.0	104.8
2086	Bottled and canned soft drinks	–	15	9	1.3	19.4	0.5	1.1	8.0	48.9	87.5	115.8	3.0	(NA)	(NA)
209	Miscellaneous foods and kindred products	–	38	14	1.1	13.7	0.7	1.2	5.9	46.1	54.0	100.2	1.8	1.3	33.2
2099	Food preparations, n.e.c.	–	21	6	0.6	7.5	0.3	0.6	3.1	18.5	25.0	43.6	0.7	1.0	22.7
22	Textile mill products	E1	14	8	1.2	10.5	1.0	2.0	7.8	12.7	41.2	54.2	1.5	0.9	7.3
23	Apparel and other textile products	E1	113	37	2.8	21.7	2.1	3.6	13.7	42.4	44.5	88.1	1.4	3.4	31.7
232	Men's and boys' furnishings	–	8	3	0.3	2.4	0.3	0.4	2.0	4.6	3.0	7.5	0.1	0.8	7.2
233	Women's and misses' outerwear	E2	26	9	0.5	3.4	0.4	0.8	2.2	7.0	5.8	12.8	0.1	0.8	6.8
239	Miscellaneous fabricated textile products	E1	58	14	1.0	9.0	0.8	1.4	5.2	18.6	20.0	38.7	1.2	1.0	8.0
24	Lumber and wood products	–	139	37	5.4	78.1	4.4	7.6	56.6	166.6	265.1	437.6	8.3	3.4	71.8
243	Millwork, plywood, and structural members	–	68	22	4.4	65.5	3.8	6.3	50.5	130.5	209.8	346.2	5.8	2.9	61.1
2434	Wood kitchen cabinets	E2	40	8	0.7	7.4	0.6	1.1	5.2	13.0	10.3	23.0	(D)	0.7	7.9
249	Miscellaneous wood products	E1	32	8	0.3	3.0	0.3	0.4	1.8	8.5	11.5	18.2	0.3	(NA)	(NA)
25	Furniture and fixtures	E1	95	25	1.9	23.3	1.5	2.7	14.1	42.9	35.7	77.8	1.0	1.9	27.1
251	Household furniture	E1	40	8	1.0	10.0	0.7	1.3	6.0	18.3	16.2	32.2	0.3	1.0	12.2
2511	Wood household furniture	E3	22	2	0.4	3.5	0.4	0.7	2.8	4.4	6.0	10.2	0.1	0.3	3.1
2515	Mattresses and bedsprings	–	10	5	0.4	5.5	0.3	0.4	2.5	10.3	8.6	18.7	0.1	0.4	5.8
254	Partitions and fixtures	–	35	11	0.5	7.8	0.4	0.8	4.9	14.7	10.1	24.4	0.5	0.6	8.9
2541	Wood partitions and fixtures	–	26	8	0.4	5.8	0.3	0.6	3.7	11.3	7.8	18.9	0.2	0.4	6.1
28	Paper and allied products	–	74	41	5.8	81.7	4.4	9.2	54.9	179.0	208.2	385.1	13.2	9.2	241.5
264	Miscellaneous converted paper products	–	43	15	2.5	30.8	2.0	3.9	20.2	58.2	55.3	111.7	5.4	5.7	167.8
2642	Envelopes	–	10	8	0.7	10.6	0.8	1.1	6.7	17.4	15.7	32.7	0.8	0.9	12.2
2645	Die-cut paper and board	–	6	2	1.1	11.3	0.9	1.8	8.5	16.6	12.8	29.2	(D)	(NA)	(NA)
2651	Folding paperboard boxes	–	11	8	0.9	13.3	0.7	1.4	9.7	28.9	37.5	65.8	3.1	(NA)	(NA)
2653	Corrugated and solid fiber boxes	–	14	13	1.5	23.3	1.0	2.1	13.4	50.0	74.7	124.8	2.4	(NA)	(NA)
27	Printing and publishing	–	650	147	20.8	300.8	12.7	22.8	168.4	574.9	310.7	883.2	34.9	18.5	321.3
2711	Newspapers	–	78	12	4.5	66.6	1.9	3.1	31.2	135.0	46.3	181.2	5.6	4.5	87.1
2721	Periodicals	E1	48	9	0.7	9.0	0.2	0.3	1.8	25.1	10.0	35.2	(D)	0.5	16.7
273	Books	–	28	10	3.4	52.4	2.2	3.9	25.3	105.6	47.7	152.2	(D)	2.5	51.9
2731	Book publishing	–	23	7	3.2	50.2	2.1	3.7	24.2	101.1	45.3	145.4	(D)	(NA)	(NA)
2741	Miscellaneous publishing	E1	29	5	0.7	8.2	0.2	0.4	3.1	12.5	9.1	21.6	0.8	0.6	7.6
275	Commercial printing	E1	369	73	9.1	131.5	8.4	11.7	84.8	232.9	169.7	401.4	17.9	6.4	123.0
2751	Commercial printing, letterpress	E1	178	19	1.8	22.0	1.4	2.5	14.5	39.7	28.1	67.8	2.9	1.6	26.1
2752	Commercial printing, lithographic	E1	180	52	7.2	107.6	4.9	9.1	69.1	190.2	140.1	329.2	14.9	4.7	95.5
2781	Manifold business forms	E4	13	7	0.5	6.5	0.3	0.8	3.8	12.3	11.2	23.4	0.9	(NA)	(NA)
2782	Blankbooks and looseleaf binders	–	8	5	0.5	5.8	0.4	0.8	4.4	14.5	4.9	19.3	(D)	0.6	10.2
279	Printing trade services	E1	63	23	1.2	18.5	0.9	1.8	12.8	33.5	10.8	44.1	2.4	0.9	16.5
2791	Typesetting	–	45	15	0.8	10.9	0.8	1.1	7.5	20.6	7.1	27.6	1.5	0.6	9.8
2795	Lithographic platemaking services	E1	13	7	0.3	8.7	0.2	0.4	4.5	11.4	3.3	14.6	(D)	(NA)	(NA)
28	Chemicals and allied products	–	113	40	4.9	71.3	2.8	5.2	35.1	338.8	331.9	668.2	8.0	5.2	243.3
282	Plastics materials and synthetics	–	4	1	1.1	20.2	0.7	1.3	11.4	88.6	74.3	161.2	0.4	(NA)	(NA)
283	Drugs	–	10	4	0.3	4.7	0.2	0.3	1.4	11.8	14.3	25.8	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Minneapolis-St. Paul, Minn.-Wis., SMSA—Con.														
28	Chemicals and allied products—Con.														
284	Soaps, cleaners, and toilet goods	–	36	13	2.1	28.3	1.2	2.0	13.3	180.6	133.2	312.8	3.4	2.1	120.1
2841	Soap and other detergents	E1	14	5	0.3	3.7	0.1	0.2	1.3	11.2	13.3	24.2	(D)	(NA)	(NA)
2844	Toilet preparations	–	10	5	1.6	20.5	1.0	1.7	10.9	156.0	106.2	261.9	1.4	1.8	112.1
2851	Paints and allied products	–	18	6	0.5	6.2	0.3	0.5	2.9	17.0	27.9	45.0	0.6	0.7	20.7
289	Miscellaneous chemical products	E1	31	10	0.5	7.2	0.3	0.5	3.0	18.0	23.6	41.2	0.9	1.9	85.7
29	Petroleum and coal products	–	21	11	1.3	24.3	1.0	2.1	17.7	258.8	991.9	1 261.7	10.4	1.4	64.7
30	Rubber and miscellaneous plastics products	–	189	81	7.4	83.5	5.7	10.6	53.8	172.1	168.5	338.8	14.8	6.1	103.8
3079	Miscellaneous plastics products	–	168	69	6.1	67.2	4.8	8.9	42.7	143.9	149.0	290.3	12.4	5.1	83.5
31	Leather and leather products	–	14	6	0.3	3.0	0.3	0.5	2.1	7.0	11.3	18.3	0.3	(NA)	(NA)
32	Stone, clay, and glass products	–	140	35	5.8	90.5	4.4	8.6	63.3	293.5	222.2	470.4	9.9	2.8	59.2
3272	Concrete products, n.e.c.	–	36	8	0.6	8.7	0.5	1.0	5.8	20.0	17.9	37.7	1.0	0.7	13.5
3273	Ready-mixed concrete	–	38	9	0.6	9.5	0.4	0.9	6.9	18.8	29.6	48.3	2.7	0.6	12.7
33	Primary metal industries	–	81	46	5.5	79.4	4.6	9.1	59.5	154.1	182.3	337.1	13.2	4.8	85.1
331	Blast furnace and basic steel products	–	7	3	1.2	21.8	1.0	1.9	16.1	44.7	83.8	131.6	(D)	1.1	24.0
332	Iron and steel foundries	–	21	13	1.5	20.3	1.3	2.4	15.7	43.5	24.5	66.9	2.6	1.3	23.9
336	Nonferrous foundries	–	25	17	1.9	27.3	1.6	3.4	20.7	40.7	39.4	79.3	2.4	1.8	26.3
3361	Aluminum foundries	–	18	15	1.7	25.2	1.5	3.1	19.3	35.5	36.7	71.5	(D)	1.4	22.8
339	Miscellaneous primary metal products	–	15	8	0.6	6.7	0.5	0.9	4.8	13.5	6.3	19.7	0.9	0.5	6.8
34	Fabricated metal products	–	461	200	23.7	349.2	16.9	33.5	212.0	642.7	624.7	1 208.0	68.4	27.2	495.8
341	Metal cans and shipping containers	–	9	7	1.1	21.2	0.9	1.9	17.2	83.5	106.8	191.7	(D)	1.1	43.2
342	Cutlery, hand tools, and hardware	E1	32	7	0.8	9.5	0.6	1.2	6.4	24.2	23.0	46.8	0.9	0.9	15.7
3429	Hardware, n.e.c.	E1	19	5	0.7	7.7	0.5	1.0	5.3	18.3	16.4	34.4	0.8	0.5	9.1
343	Plumbing and heating, except electric	–	14	2	0.3	3.6	0.2	0.4	2.5	7.1	8.3	15.7	(D)	0.6	12.8
344	Fabricated structural metal products	–	154	65	6.0	83.7	4.2	7.9	50.0	164.2	191.8	346.9	7.0	5.0	93.3
3441	Fabricated structural metal	E2	25	15	1.3	18.1	0.9	1.9	11.4	36.2	55.2	88.5	1.3	1.7	27.0
3442	Metal doors, sash, and trim	–	18	8	0.8	9.5	0.6	1.1	5.3	16.4	15.8	31.9	0.8	0.7	11.0
3443	Fabricated plate work (boiler shops)	–	24	11	1.8	27.9	1.2	2.0	15.5	56.8	54.7	105.7	2.7	0.7	15.5
3444	Sheet metal work	–	63	22	1.3	16.9	1.0	1.9	11.5	34.0	31.6	64.5	1.9	1.0	20.0
3449	Miscellaneous metal work	–	6	3	0.5	6.7	0.3	0.6	4.2	12.0	28.4	41.4	0.1	0.5	12.5
345	Screw machine products, bolts, etc.	–	35	22	1.4	19.2	1.2	2.4	14.1	38.4	22.2	60.2	2.7	1.3	21.6
3451	Screw machine products	–	29	16	1.0	13.5	0.9	1.8	10.4	22.0	13.2	35.2	1.6	1.1	16.8
3452	Bolts, nuts, rivets, and washers	–	6	6	0.4	5.7	0.3	0.6	3.7	16.4	9.0	25.0	1.1	(NA)	(NA)
346	Metal forgings and stampings	–	61	37	3.1	40.6	2.5	4.9	28.6	70.5	48.5	118.8	3.9	2.8	45.9
3469	Metal stampings, n.e.c.	–	61	37	3.1	40.6	2.5	4.9	28.6	70.5	48.5	118.8	3.9	2.8	45.9
347	Metal services, n.e.c.	–	72	31	1.7	18.5	1.4	2.8	13.3	32.0	15.5	47.4	1.4	1.2	18.1
3471	Plating and polishing	–	41	18	1.0	12.3	0.8	1.8	8.8	20.5	10.1	30.5	0.9	0.8	12.7
3479	Metal coating and allied services	E1	31	13	0.7	8.2	0.6	1.2	4.5	11.5	5.5	16.8	0.5	0.4	5.4
348	Ordnance and accessories, n.e.c.	–	7	5	7.1	125.2	4.4	9.1	63.4	162.5	151.7	266.1	(D)	12.5	211.8
349	Miscellaneous fabricated metal products	–	77	24	2.1	27.8	1.5	2.9	16.5	60.2	56.8	114.5	3.4	1.9	33.5
3494	Valves and pipe fittings	–	9	6	0.7	8.9	0.5	0.8	5.3	20.5	15.2	34.8	(D)	(NA)	(NA)
3499	Fabricated metal products, n.e.c.	E1	48	8	0.9	12.1	0.6	1.2	6.8	25.9	24.4	49.7	2.1	0.8	11.2
35	Machinery, except electrical	–	781	232	46.1	674.3	27.4	54.4	345.9	1 584.7	1 053.3	2 590.2	61.6	42.6	909.1
352	Farm and garden machinery	–	39	17	1.6	19.9	1.3	2.4	14.6	41.5	40.9	86.4	2.1	2.1	41.6
353	Construction and related machinery	–	47	24	4.1	58.9	2.6	5.1	35.8	119.9	133.2	249.8	5.3	4.7	69.6
3535	Conveyors and conveying equipment	–	14	7	0.8	10.8	0.4	0.8	5.1	20.4	19.6	40.0	1.2	0.7	11.7
3537	Industrial trucks and tractors	–	8	4	0.4	6.0	0.3	0.5	3.7	6.9	13.9	22.8	(D)	(NA)	(NA)
3541	Machine tools, metal cutting types	–	16	6	1.2	18.9	0.8	1.6	11.0	36.9	18.5	52.5	1.7	0.6	9.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Minneapolis-St. Paul, Minn.-Wis., SMSA—Con.													
35	Machinery, except electrical —Con.													
3544	Special dies, tools, jigs, and fixturas	E1	110	14	1.1	15.9	0.9	1.8	11.9	28.3	14.1	40.0	2.1	1.3	23.0
3549	Matalworking machinary, n.a.c.	–	9	4	0.7	12.1	0.4	0.8	8.8	24.7	13.2	38.5	2.4	0.8	14.8
355	Special industry machinery	–	54	22	2.1	29.1	1.3	2.5	16.2	82.2	48.0	108.0	1.4	1.7	32.7
3551	Food products machinery	E1	14	8	0.7	9.0	0.4	0.8	5.0	20.2	19.9	38.1	0.5	0.4	7.4
3553	Woodworking machinery	–	8	4	0.4	5.8	0.2	0.5	3.1	14.0	7.3	21.1	0.2	(NA)	(NA)
3559	Special industry machinery, n.e.c.	–	19	7	0.9	12.3	0.6	1.0	8.9	23.8	17.7	41.8	0.5	0.7	13.2
356	Genaral industrial machinery	–	104	38	6.3	89.8	3.9	7.9	50.7	213.5	128.8	331.9	8.0	5.3	117.4
3564	Blowars and fans	–	19	9	1.2	16.1	0.8	1.4	9.5	36.9	28.8	62.4	1.2	0.8	15.4
3566	Speed changars, drives, and gaars	E1	9	3	0.3	4.1	0.2	0.4	2.2	8.1	5.1	13.5	0.7	0.6	10.5
3568	Power transmission equipment, n.e.c.	–	5	4	0.4	5.7	0.3	0.6	3.1	15.0	5.3	19.5	(D)	0.3	5.3
3569	Genaral industrial machinery, n.a.c.	–	36	12	1.4	18.4	0.9	1.8	11.0	38.2	22.1	59.8	0.9	0.9	18.4
357	Office and computing machines	–	46	20	17.6	274.3	8.1	18.8	104.2	720.8	404.2	1 095.6	21.6	(NA)	(NA)
3573	Electronic computing equipment	–	38	18	17.2	269.5	7.9	16.2	102.3	710.4	398.9	1 079.2	20.9	(NA)	(NA)
358	Refrigeration and servica machinery	–	52	23	6.7	90.7	4.2	7.9	48.5	219.9	200.7	418.5	9.8	6.3	149.8
3585	Refrigaration and haating equipment	–	23	13	3.6	49.1	2.5	4.8	28.9	121.8	132.0	252.8	2.5	2.9	75.8
36	Electric and electronic equipment	–	215	85	22.0	304.5	14.3	27.3	165.6	741.5	503.5	1 229.7	37.3	13.3	274.3
3622	Industrial controls	–	15	7	0.9	14.4	0.4	0.7	3.9	25.2	17.9	43.0	(D)	0.8	11.5
3679	Electronic components, n.e.c.	E3	57	22	3.6	42.0	2.7	5.3	28.3	78.8	38.1	115.6	3.7	(NA)	(NA)
3899	Electrical equipment and supplias, n.e.c.	E2	15	8	0.5	5.0	0.4	0.7	3.1	8.8	8.2	18.6	0.5	(NA)	(NA)
37	Transportation equipmant	–	71	22	3.7	65.9	3.1	6.3	50.6	189.1	578.8	749.4	8.1	4.3	141.8
3714	Motor vehicla parts and accessorias	E1	26	7	0.5	6.6	0.3	0.8	4.0	14.0	11.8	25.4	1.8	(NA)	(NA)
38	Instrumants and ralated products	–	112	45	11.0	149.5	6.9	13.5	80.9	311.7	174.1	464.3	12.3	8.4	167.8
3823	Process control instruments	–	8	6	1.6	24.2	0.8	1.7	9.9	56.1	29.2	79.3	2.0	(NA)	(NA)
384	Medical instrumants and supplies	E1	54	18	1.9	20.3	1.3	2.3	11.0	42.4	29.9	70.1	2.4	0.9	19.7
3841	Surgical and medical instrumants	E1	24	7	0.6	7.5	0.3	0.5	2.2	17.4	9.6	26.6	0.9	(NA)	(NA)
3842	Surgical appliances and supplies	–	21	10	1.2	11.9	1.0	1.7	8.3	23.1	16.4	37.8	1.4	0.7	15.4
3861	Photographic equipmant and supplies	–	10	5	1.4	20.5	0.6	1.1	8.1	39.8	18.8	58.8	1.0	1.2	20.1
39	Miscellanaous manufacturing industries	–	182	43	5.2	52.2	4.1	7.2	31.3	140.0	87.5	226.9	10.9	5.5	70.3
394	Toys and sporting goods	–	60	18	3.2	32.0	2.6	4.4	18.8	94.1	57.6	151.9	8.2	3.2	38.5
3944	Gamas, toys, and chiidran's vahicles	–	17	5	2.2	23.0	1.8	2.8	13.1	72.2	32.6	107.1	6.4	1.9	23.3
399	Miscellaneous manufactures	–	94	21	1.8	17.4	1.4	2.5	10.9	38.5	25.7	63.6	2.6	1.9	25.6
3993	Signs and advertising displays	–	44	11	0.8	9.7	0.8	1.2	6.4	20.2	12.1	32.0	1.5	1.2	18.0
3999	Manufacturing industries, n.e.c.	E3	45	7	0.5	3.8	0.3	0.5	2.0	7.6	4.8	12.4	(D)	0.4	5.5
–	Administrative and auxiliary	–	159	88	27.6	660.6	–	–	–	–	–	–	–	(NA)	(NA)
	Racine SMSA	–	**405**	**147**	**27.2**	385.8	17.5	**34.0**	**212.3**	**980.7**	**761.8**	**1 743.0**	55.5	**25.8**	**589.8**
20	Food and kindred products	–	17	7	1.2	11.1	0.8	1.6	8.3	94.8	75.9	168.8	0.5	1.1	34.3
27	Printing and publishing	–	36	9	1.7	22.1	0.9	1.7	10.4	46.6	34.9	80.6	1.2	0.8	14.5
275	Commarcial printing	E1	21	5	0.4	3.9	0.3	0.5	2.2	6.5	4.1	10.5	0.3	(NA)	(NA)
33	Primary metal industrias	–	22	9	2.4	33.2	1.9	3.8	25.3	60.6	45.8	105.0	8.7	2.2	21.5
34	Fabricatad metal products	–	67	28	3.0	39.7	2.2	4.2	27.0	71.2	73.2	145.7	4.8	2.4	48.4
344	Fabricated structural metal products	E1	13	5	0.8	11.0	0.5	1.1	8.1	18.7	15.3	32.8	0.3	(NA)	(NA)
345	Scraw machina products, bolts, etc.	E1	13	5	0.3	2.8	0.2	0.5	1.9	5.4	2.5	7.8	0.4	(NA)	(NA)
346	Matal forgings and stampings	–	14	10	0.8	11.6	0.6	1.3	8.1	21.3	32.6	53.4	2.8	0.7	15.3
3465	Automotiva stampings	–	3	3	0.4	6.2	0.3	0.7	4.5	11.2	13.3	24.2	(D)	(NA)	(NA)

Saa footnotes at and of tabla.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those thet would disclose operations of individuel companies. For definitions of SCSA's and SMSA's, see appendix A. For explanetion of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Racine SMSA—Con.													
35	Machinery, except electrical	-	120	34	8.0	125.3	8.0	11.5	83.9	310.2	291.9	604.1	22.7	7.4	166.8
354	Metalworking machinery	-	41	7	0.8	11.5	0.6	1.1	6.8	23.7	14.2	37.7	1.4	(NA)	(NA)
356	Generel industrial machinery	-	13	6	2.1	31.2	1.5	2.7	19.7	58.7	38.8	95.4	(D)	2.1	47.1
36	Electric and electronic equipment	-	31	17	2.9	29.2	2.2	4.0	17.1	74.1	58.2	132.7	4.5	2.1	39.1
38	Instruments and related products	E1	8	5	0.4	4.5	0.3	0.7	2.4	8.4	5.2	13.3	1.7	(NA)	(NA)

Note: "All industries" level includes deta on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld beceuse estimate did not meet publication standerds.
(Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales date for smell single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rether then from census report forms. These data were then used in conjunction with industry averages to estimete the belence of items shown for these smell establishments. This technique wes also used for e small number of other establishments whose reports were not received at time deta were tabuleted. The following symbols ere shown for those States where estimeted deta besed on administrative records deta eccount for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of meterials and value of shipments for industry groups (2- and 3-digit) and for ell menufacturing industries includes extensive duplication, since products of some industries are used es meterials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those thet would disclose operetions of individual companies. For explenetion of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Ashland County	-	**49**	**15**	**1.4**	**13.3**	**1.3**	**2.3**	**10.9**	**35.8**	**34.5**	**88.9**	**1.8**	**1.3**	**20.2**
24	Lumber and wood products	E1	30	6	0.7	5.1	0.6	1.1	4.4	13.6	12.8	25.7	0.4	0.5	5.9
	Barron County	-	**78**	**28**	**3.3**	**31.1**	**2.7**	**5.2**	**22.8**	**77.7**	**173.2**	**249.9**	**9.7**	**2.8**	**38.8**
20	Food and kindred products	-	25	11	1.2	10.5	0.9	1.7	7.5	29.5	118.3	148.1	(D)	0.9	13.4
24	Lumber and wood products	-	11	4	0.5	4.0	0.5	0.9	3.3	6.2	4.9	10.7	(D)	(NA)	(NA)
34	Febricated metal products	-	7	5	0.6	6.1	0.5	1.0	4.3	15.7	15.8	31.0	(D)	(NA)	(NA)
	Brown County (Coextensive with Green Bay, Wis., SMSA; see table 6.)														
	Burnett County	-	**24**	**9**	**0.8**	**5.2**	**0.5**	**0.9**	**3.8**	**11.5**	**17.0**	**28.8**	**1.1**	**0.4**	**4.4**
	Calumet County	-	**59**	**24**	**5.0**	**84.0**	**4.1**	**7.8**	**49.3**	**173.8**	**251.0**	**420.2**	**10.5**	**4.5**	**87.2**
	Chippewa County	-	**103**	**33**	**4.1**	**43.2**	**2.8**	**8.0**	**30.3**	**111.4**	**248.5**	**353.9**	**8.0**	**5.7**	**118.1**
20	Food and kindred products	-	20	8	0.8	9.5	0.6	1.2	6.8	23.4	142.1	163.6	1.8	0.7	9.3
314	Footwear, except rubber	-	3	3	1.0	8.5	0.4	1.3	5.2	20.0	25.9	45.6	(D)	0.6	9.8
3143	Men's footwear, except ethletic	-	3	3	1.0	8.5	0.4	1.3	5.2	20.0	25.9	45.8	(D)	(NA)	(NA)
35	Mechinery, except electrical	-	11	7	0.6	7.0	0.4	0.9	4.7	16.9	21.6	37.9	(D)	(NA)	(NA)
	Clerk County	-	**97**	**18**	**1.8**	**15.4**	**1.3**	**2.4**	**12.1**	**38.2**	**119.2**	**154.5**	**2.5**	**1.8**	**21.7**
20	Food end kindred products	-	42	8	0.8	5.4	0.4	0.9	4.3	14.7	99.0	113.1	(D)	0.5	8.1
	Columbie County	-	**85**	**33**	**3.4**	**32.4**	**2.8**	**5.4**	**22.8**	**75.0**	**105.8**	**175.8**	**3.8**	**3.1**	**61.5**
20	Food end kindred products	-	16	9	0.8	8.8	0.7	1.5	5.5	16.8	41.9	58.8	(D)	0.7	14.1
203	Preserved fruits end vegetables	-	8	7	0.7	5.8	0.7	1.3	4.9	11.0	28.8	39.9	(D)	0.6	10.7
35	Mechinery, except electrical	-	15	7	0.5	8.8	0.4	0.8	4.3	18.2	14.1	31.0	(D)	(NA)	(NA)

See footnotes et end of teble.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Crawford County	-	33	7	0.9	9.7	0.7	1.4	7.3	53.6	53.2	106.6	1.5	0.6	20.5
	Dane County (Coextensive with Madison, Wis., SMSA; see table 6.)														
	Dodge County	-	144	56	6.7	107.1	6.6	13.2	75.5	277.6	309.3	584.4	11.6	6.6	145.4
202	Dairy products	-	16	6	0.7	7.6	0.5	1.0	5.8	27.1	66.4	111.6	(D)	0.6	11.8
203	Preserved fruits and vegetables	-	9	7	1.4	11.4	1.3	2.4	9.4	48.3	41.5	67.6	(D)	1.2	20.4
2033	Canned fruits and vegetables	-	9	7	1.4	11.4	1.3	2.4	9.4	46.3	41.5	87.6	(D)	(NA)	(NA)
	Door County	-	46	14	3.5	39.2	3.1	5.7	30.0	112.0	94.4	207.1	7.3	1.6	22.2
	Douglas County	-	49	12	1.0	12.5	0.6	1.4	6.7	54.6	210.6	258.3	5.2	1.6	36.7
	Dunn County	-	35	9	0.9	9.5	0.6	1.5	7.1	26.6	53.7	79.3	2.0	0.6	13.6
	Eau Claire County	-	74	24	4.7	71.2	3.7	7.5	54.6	160.2	162.1	335.0	11.0	5.2	141.7
20	Food and kindred products	-	11	7	0.6	9.2	0.4	1.0	6.5	20.7	47.5	68.0	0.9	0.6	49.0
	Fond du Lac County	-	139	60	10.6	139.1	7.6	14.6	67.7	377.6	625.4	1 000.9	13.5	10.6	237.1
20	Food and kindred products	-	32	15	1.9	19.1	1.6	3.1	14.5	70.1	210.6	279.9	(D)	1.7	43.0
202	Dairy products	-	15	6	0.7	9.2	0.6	1.2	7.2	27.2	150.0	176.1	(D)	0.6	24.1
203	Preserved fruits and vegetables	-	7	6	0.7	4.6	0.6	1.1	4.1	29.1	31.4	60.5	(D)	0.7	10.8
34	Fabricated metal products	-	11	7	0.5	6.1	0.4	0.6	4.5	15.9	17.9	34.7	(D)	0.5	12.5
	Forest County	-	40	4	0.6	5.3	0.5	0.6	4.0	11.2	9.5	20.5	0.9	0.7	7.6
	Grant County	-	76	20	2.0	16.9	1.6	3.1	12.2	32.0	69.7	120.9	2.9	1.2	16.9
36	Electric and electronic equipment	-	6	6	1.2	6.9	1.1	2.1	7.5	12.1	27.3	39.8	0.7	0.8	7.2
	Green County	-	64	20	2.2	21.2	1.9	3.5	16.0	63.9	127.2	169.3	4.9	2.1	40.7
20	Food and kindred products	E1	29	9	0.5	4.9	0.4	0.7	3.6	23.9	72.1	94.5	(D)	0.6	19.0
	Green Lake County	-	52	20	2.4	22.6	2.0	3.9	16.4	53.2	46.3	99.3	2.9	2.0	29.3
	Jackson County	-	21	6	0.6	6.1	0.5	1.0	4.0	13.6	24.1	37.1	(D)	0.6	11.0
	Jefferson County	-	129	56	9.9	126.4	6.9	13.5	75.5	264.4	393.6	679.2	13.2	6.6	171.5
20	Food and kindred products	-	24	12	1.6	22.9	1.3	2.4	16.0	94.7	232.0	337.4	3.9	1.7	60.5
27	Printing and publishing	-	15	5	0.7	10.5	0.5	0.9	7.3	24.5	20.3	44.0	(D)	0.7	11.8
35	Machinery, except electrical	-	24	12	2.5	36.3	1.7	3.3	20.1	63.0	58.7	114.9	2.4	2.0	35.4
36	Electric and electronic equipment	-	5	4	1.3	14.2	1.0	1.6	8.4	24.9	16.3	40.0	2.0	(NA)	(NA)
	Juneau County	-	37	14	1.4	12.6	1.2	2.3	9.5	27.6	57.9	65.4	2.6	1.2	15.1
	Kenosha County (Coextensive with Kenosha, Wis., SMSA; see table 6.)														
	Kewaunee County	-	41	12	1.2	13.1	1.0	1.9	9.7	25.6	45.4	70.9	0.9	1.9	25.7
	La Crosse County (Coextensive with La Crosse, Wis., SMSA; see table 6.)														
	Langlade County	-	50	16	1.3	11.2	1.1	2.0	6.5	26.4	43.6	72.0	1.3	1.2	15.6
	Lincoln County	-	63	22	3.2	35.5	2.5	4.9	25.1	60.1	90.6	170.0	(D)	3.0	46.0
24	Lumber and wood products	-	19	7	1.1	12.2	1.0	1.6	8.7	22.2	34.2	55.6	(D)	1.1	12.9
243	Millwork, plywood, and structural members	-	6	6	1.0	11.1	0.9	1.6	7.9	20.2	31.6	51.2	(D)	0.9	10.5
2431	Millwork	-	6	6	1.0	11.1	0.9	1.6	7.9	20.2	31.6	51.2	(D)	(NA)	(NA)
26	Paper and allied products	-	4	4	0.6	11.0	0.6	1.1	6.5	33.5	28.6	62.1	(D)	(NA)	(NA)
	Manitowoc County	-	149	70	14.7	167.7	10.3	20.6	106.7	364.6	395.5	756.6	31.7	13.3	194.7
20	Food and kindred products	-	27	14	1.2	14.0	0.6	1.7	7.6	46.0	124.9	169.6	2.5	1.4	25.5
202	Dairy products	-	13	7	0.5	5.1	0.4	0.7	3.3	13.8	72.7	64.6	0.3	0.5	8.1
33	Primary metal industries	-	5	3	0.6	7.3	0.5	1.0	6.5	10.5	11.0	21.4	0.3	0.5	6.6
34	Fabricated metal products	-	22	10	3.6	40.4	2.5	5.0	26.0	67.7	76.7	147.0	2.1	4.1	59.7
35	Machinery, except electrical	-	26	12	3.8	46.9	3.0	6.4	36.3	137.6	104.0	238.0	(D)	2.9	46.4

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Marathon County	–	**212**	**71**	**13.2**	**182.7**	**9.4**	**19.7**	**121.0**	**384.8**	**779.3**	**1 155.8**	**38.8**	**11.5**	**194.3**
20	Food and kindred products	–	47	8	1.3	14.7	1.1	2.2	11.1	55.1	376.0	430.3	2.8	1.4	23.8
202	Dairy products	–	30	5	1.1	12.0	0.9	1.9	9.9	46.9	349.7	395.3	2.6	1.1	18.8
2022	Cheese, natural and processed	–	23	4	1.0	10.8	0.9	1.8	8.9	41.4	339.9	379.9	(D)	(NA)	(NA)
24	Lumber and wood products	–	34	14	3.2	40.9	2.5	5.8	30.9	85.8	102.3	186.4	4.3	1.8	28.3
243	Millwork, plywood, and structural members	–	8	5	1.1	12.2	0.9	1.9	9.2	18.7	24.9	42.2	(D)	0.7	8.1
26	Paper and allied products	–	7	6	3.0	45.5	2.3	4.8	34.6	85.5	145.3	229.9	20.5	2.9	49.3
34	Fabricated metal products	E1	22	7	0.7	7.9	0.5	1.0	4.9	13.8	14.3	27.8	1.3	(NA)	(NA)
35	Machinery, except electrical	–	31	10	2.2	35.7	1.4	3.0	20.7	75.7	93.8	164.9	4.1	1.8	36.9
	Marinette County	–	**110**	**33**	**8.4**	**79.9**	**5.0**	**9.6**	**57.5**	**184.4**	**246.3**	**408.9**	**40.0**	**4.8**	**90.5**
24	Lumber and wood products	E1	52	7	0.9	7.8	0.8	1.3	8.3	13.9	13.4	26.6	1.7	0.8	9.4
26	Paper and allied products	–	6	6	1.9	30.1	1.6	3.1	23.5	68.7	119.4	187.8	(D)	1.5	37.3
35	Machinery, except electrical	–	10	4	1.0	11.3	0.8	1.6	7.7	27.2	29.0	55.8	1.2	0.6	11.4
37	Transportation equipment	E1	3	3	0.5	4.7	0.5	0.8	3.6	7.0	9.9	16.8	0.5	(NA)	(NA)
	Milwaukee County	–	**1 792**	**735**	**153.8**	**2 348.0**	**103.8**	**200.7**	**1 463.8**	**4 954.1**	**4 797.8**	**9 860.7**	**295.2**	**159.2**	**2 939.8**
20	Food and kindred products	–	114	64	15.0	253.2	9.6	19.7	163.2	626.7	1 150.6	1 779.2	77.7	15.3	397.4
2011	Meat packing plants	E2	11	6	1.7	27.7	1.4	2.7	22.0	50.9	318.1	367.2	(D)	(NA)	(NA)
2013	Sausages and other prepared meats	E1	15	6	0.5	7.0	0.3	0.8	3.9	11.4	21.6	33.1	(D)	(NA)	(NA)
2051	Bread, cake, and related products	–	17	10	2.3	21.9	1.2	2.4	12.5	52.5	32.9	85.4	1.0	(NA)	(NA)
208	Beverages	–	25	13	8.0	165.8	5.1	10.8	107.7	404.9	562.2	973.1	68.1	(NA)	(NA)
209	Miscellaneous foods and kindred products	–	17	11	0.6	6.8	0.4	0.8	4.4	21.2	29.0	49.4	(D)	0.7	16.7
23	Apparel and other textile products	E1	43	23	1.8	16.4	1.4	2.7	10.0	30.7	29.9	60.7	(D)	(NA)	(NA)
264	Miscellaneous converted paper products	–	19	9	0.5	6.6	0.4	0.7	3.6	16.0	17.6	33.7	0.5	0.6	9.4
265	Paperboard containers and boxes	–	21	17	2.1	27.2	1.6	3.0	18.2	53.2	70.1	122.9	3.8	2.5	38.7
2651	Folding paperboard boxes	–	6	5	0.5	6.4	0.4	0.8	4.5	15.0	13.4	28.2	(D)	(NA)	(NA)
27	Printing and publishing	–	278	61	8.8	112.7	4.7	9.0	62.8	218.5	134.6	351.4	9.9	9.9	157.5
275	Commercial printing	–	164	27	3.8	52.4	2.7	5.2	36.0	94.8	76.2	170.0	7.0	4.7	77.4
2782	Blankbooks and looseleaf binders	–	5	4	0.5	6.0	0.3	0.6	3.2	7.3	5.4	12.6	0.4	(NA)	(NA)
28	Chemicals and allied products	–	85	35	2.9	40.8	1.6	3.3	18.4	107.5	139.7	246.3	7.4	2.9	74.2
2851	Paints and allied products	–	11	4	0.6	10.6	0.3	0.6	4.2	22.3	47.7	69.3	(D)	(NA)	(NA)
289	Miscellaneous chemical products	–	37	15	1.1	15.6	0.6	1.2	6.8	38.0	50.0	87.0	1.1	0.8	21.3
2899	Chemical preparations, n.e.c.	–	20	8	0.5	7.3	0.2	0.4	2.4	18.4	21.0	39.5	0.6	(NA)	(NA)
3079	Miscellaneous plastics products	E1	46	24	1.9	20.9	1.6	3.0	14.7	41.0	43.0	83.4	3.8	(NA)	(NA)
31	Leather and leather products	–	34	20	2.5	30.2	2.1	4.0	21.5	63.7	106.9	171.0	(D)	4.1	57.8
32	Stone, clay, and glass products	E1	50	15	0.9	12.0	0.7	1.3	7.8	29.2	33.3	62.9	1.9	0.9	18.5
329	Miscellaneous nonmetallic mineral products	E1	16	3	0.5	5.7	0.4	0.7	3.7	10.8	13.8	24.5	(D)	(NA)	(NA)
3321	Gray iron foundries	–	12	10	1.4	19.3	1.1	2.1	15.0	33.4	29.3	62.5	3.1	(NA)	(NA)
3322	Malleable iron foundries	–	4	4	0.9	12.1	0.7	1.4	7.9	18.7	8.1	26.9	1.7	(NA)	(NA)
3325	Steel foundries, n.e.c.	–	8	8	2.7	39.6	2.2	4.4	31.0	77.6	33.1	108.9	5.6	(NA)	(NA)
34	Fabricated metal products	–	224	102	21.1	324.7	16.6	31.7	238.8	666.3	710.2	1 355.3	32.7	21.5	398.5
3411	Metal cans	–	5	4	2.8	52.3	2.3	4.9	43.8	141.0	232.3	366.0	3.4	(NA)	(NA)
342	Cutlery, hand tools, and hardware	–	17	12	3.4	44.0	2.7	5.0	33.0	110.1	56.2	164.9	5.2	2.8	64.8
344	Fabricated structural metal products	–	66	32	4.2	63.1	2.8	5.3	37.7	124.6	152.1	264.6	7.0	4.2	75.5
3441	Fabricated structural metal	–	10	5	0.7	11.9	0.4	0.8	4.9	28.5	20.4	39.8	0.8	(NA)	(NA)
3443	Fabricated plate work (boiler shops)	E1	26	15	1.8	28.7	1.4	2.6	18.5	55.0	47.3	97.7	2.8	(NA)	(NA)
3444	Sheet metal work	–	16	8	1.2	18.8	0.8	1.6	12.1	34.4	59.6	92.8	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products	–	38	13	2.3	29.9	2.0	3.6	23.3	73.9	38.7	109.9	2.0	3.5	47.1

See footnotes at end of table.

Table 7. **Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972**—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Milwaukee County—Con.													
35	Machinery, except electrical	–	391	149	40.9	648.3	29.5	58.3	440.7	1 489.4	1 123.1	2 587.2	78.2	38.7	764.1
351	Engines and turbines	–	9	9	13.5	221.5	11.2	21.2	177.7	420.9	407.5	808.0	19.1	9.7	221.8
353	Construction and related machinery	–	39	27	10.5	166.0	7.1	13.4	108.0	451.8	324.9	768.9	27.2	10.8	193.8
354	Metalworking machinery	–	100	25	3.7	85.1	2.5	5.2	38.7	115.8	45.0	152.9	3.7	4.2	85.7
3544	Special dies, tools, jigs, and fixtures	–	73	18	1.8	30.3	1.4	2.9	21.0	43.9	17.0	60.9	(D)	(NA)	(NA)
355	Special industry machinery	–	33	15	1.9	28.6	1.1	2.0	14.3	62.4	51.7	112.8	3.4	2.3	53.1
3559	Special industry machinery, n.e.c.	–	15	6	0.9	14.1	0.4	0.8	5.8	35.8	31.5	87.9	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	124	40	2.3	30.1	1.8	3.4	20.0	55.4	29.1	83.2	3.4	1.9	31.8
362	Electrical industrial apparatus	–	25	16	12.1	183.7	7.8	18.0	107.1	335.8	153.4	476.4	15.5	14.0	214.2
3622	Industrial controls	–	13	8	9.6	146.7	6.1	13.1	84.3	268.7	120.6	379.7	(D)	(NA)	(NA)
364	Electric lighting and wiring equipment	–	11	6	0.8	9.0	0.6	1.1	4.9	13.4	15.0	28.3	1.2	(NA)	(NA)
37	Transportation equipment	–	35	20	10.4	177.8	8.2	14.6	132.1	561.5	522.2	1 088.2	(D)	13.1	253.3
371	Motor vehicles and equipment	–	21	14	10.0	172.2	7.9	14.0	128.5	548.4	510.7	1 061.6	(D)	10.1	190.0
3991	Brooms and brushes	–	7	5	0.7	7.7	0.5	1.1	3.9	18.0	22.3	40.0	(D)	(NA)	(NA)
3993	Signs and advertising displays	–	29	10	1.0	11.6	0.7	1.3	8.3	22.3	18.7	41.3	(D)	(NA)	(NA)
--	Administrative and auxiliary	–	69	43	7.8	149.8	–	–	–	–	–	–	–	(NA)	(NA)
	Monroe County	–	45	15	2.1	18.7	1.7	3.1	12.2	52.3	71.8	118.5	2.1	1.3	19.3
	Oconto County	–	70	28	2.2	22.8	1.8	3.7	18.4	46.8	92.4	141.4	8.0	2.5	41.8
20	Food and kindred products	–	16	8	0.5	4.3	0.4	0.9	3.4	9.3	36.7	47.7	0.7	0.5	11.5
	Oneida County	–	51	14	2.1	28.8	1.8	3.2	20.8	49.1	90.7	137.9	4.8	1.6	31.5
	Outagamie County	–	179	77	18.7	223.2	12.3	25.3	147.8	578.7	901.8	1 456.1	50.8	14.2	281.4
20	Food and kindred products	–	31	18	2.8	30.2	2.0	4.0	19.2	93.0	305.5	397.9	10.0	1.6	33.8
202	Dairy products	–	13	7	0.8	9.2	0.6	1.4	7.3	38.1	165.9	204.1	3.3	0.5	18.5
2033	Canned fruits and vegetables	E1	6	6	0.6	3.2	0.4	0.7	2.6	7.7	12.8	20.4	1.0	(NA)	(NA)
26	Paper and allied products	–	17	13	5.6	86.0	4.3	9.2	61.5	229.8	340.9	563.1	27.0	5.4	120.5
264	Miscellaneous converted paper products	–	11	7	2.6	39.1	1.8	3.9	24.1	107.1	185.0	270.0	4.8	2.4	49.1
27	Printing and publishing	–	26	4	0.5	6.3	0.3	0.5	3.0	12.0	7.7	19.7	(D)	(NA)	(NA)
	Ozaukee County	–	172	74	9.8	122.8	7.1	13.8	80.9	238.5	283.0	520.1	14.1	8.2	153.8
28	Chemicals and allied products	–	10	5	0.5	7.1	0.2	0.3	1.9	15.2	22.3	37.2	(D)	(NA)	(NA)
33	Primary metal industries	–	11	9	0.8	10.7	0.7	1.4	8.7	20.0	23.8	44.6	1.4	0.8	9.6
34	Fabricated metal products	–	21	13	1.0	13.3	0.6	1.2	7.7	22.0	21.7	42.7	1.2	0.7	11.1
35	Machinery, except electrical	–	38	14	3.3	48.4	2.4	4.7	33.8	104.5	127.9	232.5	5.5	3.4	78.4
36	Electric and electronic equipment	–	18	8	1.8	19.0	1.4	2.7	13.3	30.1	27.3	56.0	1.7	1.1	13.4
	Pierce County	–	38	9	1.0	11.4	0.7	1.8	7.2	30.3	51.7	81.5	3.8	0.8	27.5
	Polk County	–	88	22	1.8	17.7	1.5	2.9	12.8	48.5	83.3	108.5	9.2	1.4	22.8
	Portage County	–	88	28	3.5	43.2	2.7	5.5	30.1	88.7	121.4	206.8	11.3	2.5	40.1
20	Food and kindred products	–	14	7	0.9	10.2	0.7	1.2	8.4	19.8	37.3	56.1	(D)	(NA)	(NA)
25	Furniture and fixtures	–	7	4	0.7	7.9	0.5	1.1	5.3	15.1	14.0	29.7	(D)	(NA)	(NA)
	Price County	–	47	12	1.1	11.4	0.9	1.8	7.8	29.8	32.1	85.1	3.0	1.8	25.7
	Racine County (Coextensive with Racine, Wis., SMSA; see table 6.)														
	Richland County	–	31	9	0.8	7.5	0.8	1.8	5.8	30.7	65.7	95.0	0.8	0.7	12.8
	Rock County	–	188	82	20.3	321.2	15.1	30.5	223.3	942.0	2 013.3	2 951.8	27.1	18.0	427.2
20	Food and kindred products	–	16	9	1.2	15.3	1.0	1.8	11.0	58.1	110.3	166.7	2.2	0.7	14.4
34	Fabricated metal products	–	18	6	0.7	9.2	0.5	1.1	6.2	24.6	31.6	54.9	1.1	0.8	12.9
35	Machinery, except electrical	–	38	10	4.6	68.6	2.6	4.9	32.0	139.7	113.1	252.0	4.7	4.5	64.6
	Rusk County	–	40	14	1.3	13.4	1.2	2.4	10.9	34.3	49.0	82.5	2.1	0.9	10.8
	St. Croix County	–	83	23	2.1	24.9	1.5	3.1	15.4	87.8	78.8	142.4	3.1	1.8	38.1

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and Industry	1977											1972	
			All establishments		All employees		Production workers							
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Sauk County	-	**81**	**29**	**3.5**	**34.3**	**2.5**	**5.3**	**20.7**	**93.0**	**168.4**	**259.0**	**5.8**	**4.9**	**78.9**
30	Rubber and miscellaneous plastics products	-	6	4	0.8	6.5	0.6	1.3	4.1	21.6	12.2	34.2	(D)	0.7	12.7
3079	Miscellaneous plastics products	-	6	4	0.8	6.5	0.8	1.3	4.1	21.6	12.2	34.2	(D)	(NA)	(NA)
36	Electric and electronic equipment	-	3	3	0.7	6.2	0.8	1.1	4.3	18.4	18.4	34.6	(D)	0.6	9.7
	Shawano County	-	**78**	**22**	**1.8**	**16.7**	**1.2**	**2.5**	**11.1**	**45.9**	**122.8**	**168.0**	**2.8**	**1.4**	**18.9**
24	Lumber and wood products	-	22	8	0.7	7.5	0.6	1.3	5.4	15.3	18.0	33.4	1.1	0.7	7.9
	Sheboygan County	-	**222**	**109**	**17.4**	**222.5**	**12.5**	**26.1**	**149.2**	**489.8**	**644.2**	**1 121.0**	**25.0**	**18.7**	**286.5**
20	Food and kindred products	-	44	16	1.8	20.2	1.4	2.9	14.7	74.5	252.2	330.5	4.9	1.9	38.6
202	Dairy products	-	17	5	0.9	11.5	0.7	1.5	9.0	57.7	198.5	258.8	2.6	1.0	21.9
24	Lumber and wood products	-	17	6	0.8	10.1	0.7	1.3	6.6	20.9	16.0	37.1	(D)	0.6	10.3
25	Furniture and fixtures	-	9	7	1.2	11.1	0.9	1.6	7.7	23.6	11.4	34.7	0.9	1.0	13.0
30	Rubber and miscellaneous plastics products	E1	15	12	0.8	8.7	0.6	1.2	6.0	26.0	31.4	57.7	0.8	0.5	6.9
3079	Miscellaneous plastics products	E1	15	12	0.8	8.7	0.6	1.2	6.0	26.0	31.4	57.7	0.8	(NA)	(NA)
32	Stone, clay, and glass products	-	9	4	1.0	14.9	0.8	1.9	12.6	34.9	19.5	55.9	(D)	(NA)	(NA)
33	Primary metal industries	-	11	8	1.0	11.9	0.9	1.8	9.4	25.2	28.9	52.7	1.5	0.8	11.6
34	Fabricated metal products	-	15	8	2.8	46.8	2.3	5.6	37.8	96.0	91.1	194.6	2.8	3.5	70.3
35	Machinery, except electrical	-	38	19	2.9	38.5	2.2	4.5	27.9	82.6	84.6	163.6	3.9	3.1	60.6
356	General industrial machinery	-	9	6	1.0	13.7	0.7	1.4	8.4	21.4	17.0	37.7	0.7	0.9	16.3
--	Administrative and auxiliary	-	8	6	1.8	22.8	-	-	-	-	-	-	-	(NA)	(NA)
	Taylor County	-	**36**	**13**	**1.8**	**18.8**	**1.4**	**2.9**	**13.3**	**55.9**	**42.0**	**96.4**	**3.8**	**1.2**	**15.0**
	Trempealeau County	-	**57**	**14**	**2.1**	**20.4**	**1.8**	**3.8**	**18.4**	**45.2**	**181.4**	**223.2**	**3.4**	**1.5**	**23.4**
20	Food and kindred products	-	11	4	0.9	10.3	0.8	1.7	8.7	19.2	152.9	173.3	1.4	0.6	13.1
	Vernon County	-	**47**	**10**	**0.8**	**5.3**	**0.5**	**0.8**	**3.9**	**19.8**	**29.0**	**48.0**	**0.8**	**0.5**	**10.2**
	Vilas County	-	**35**	**7**	**0.8**	**4.8**	**0.5**	**0.9**	**3.3**	**10.8**	**11.1**	**21.7**	**0.8**	**0.8**	**8.2**
	Walworth County	-	**185**	**52**	**8.3**	**89.1**	**5.0**	**9.7**	**48.9**	**185.4**	**208.1**	**371.1**	**13.7**	**5.5**	**89.4**
20	Food and kindred products	-	18	6	0.6	8.8	0.8	1.1	5.8	22.3	71.9	94.4	5.4	0.5	9.7
33	Primary metal industries	-	8	4	0.8	9.3	0.5	0.9	6.2	22.8	27.4	51.1	0.4	0.6	10.6
35	Machinery, except electrical	-	22	6	1.0	13.8	0.7	1.5	9.1	43.6	45.7	85.8	3.2	(NA)	(NA)
38	Instruments and related products	-	8	4	0.9	7.4	0.8	1.5	5.0	11.8	10.1	21.9	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries	-	14	8	0.5	4.8	0.5	0.8	3.6	9.1	6.3	17.8	0.1	0.6	7.8
	Washburn County	-	**33**	**5**	**0.5**	**4.6**	**0.4**	**0.8**	**3.3**	**8.1**	**20.3**	**28.0**	**0.8**	**0.3**	**3.1**
	Washington County	-	**187**	**56**	**10.9**	**131.9**	**7.5**	**14.2**	**77.0**	**303.5**	**342.1**	**636.1**	**11.8**	**10.0**	**178.1**
20	Food and kindred products	-	13	7	0.5	6.1	0.3	0.8	3.7	18.8	69.0	67.5	1.9	(NA)	(NA)
34	Fabricated metal products	-	24	8	1.2	15.7	0.9	1.8	9.3	38.5	36.3	74.6	1.1	1.5	20.1
35	Machinery, except electrical	-	48	10	2.8	33.3	1.8	3.4	20.5	66.2	63.4	129.1	2.4	2.8	60.5
	Waukesha County	-	**728**	**278**	**30.0**	**439.8**	**20.2**	**40.0**	**261.0**	**912.8**	**850.0**	**1 735.4**	**68.0**	**22.7**	**430.3**
20	Food and kindred products	-	29	18	1.5	17.4	1.1	2.1	12.0	82.7	134.4	195.9	2.9	1.3	27.1
202	Dairy products	-	10	4	0.5	7.3	0.3	0.8	5.1	34.4	84.7	116.4	(D)	(NA)	(NA)
27	Printing and publishing	-	84	31	2.9	45.8	2.1	4.2	33.5	67.0	70.5	156.1	6.4	2.0	36.6
275	Commercial printing	-	53	15	1.7	29.0	1.3	2.6	22.2	54.2	44.6	97.6	4.8	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	39	23	2.0	23.7	1.5	3.1	15.6	51.3	43.8	94.3	3.8	1.1	13.7
3069	Fabricated rubber products, n.e.c.	-	4	4	0.8	8.6	0.5	0.9	5.6	23.4	8.4	31.5	(D)	(NA)	(NA)
3079	Miscellaneous plastics products	E2	35	19	1.4	15.1	1.1	2.2	10.0	27.9	35.2	62.6	(D)	(NA)	(NA)
32	Stone, clay, and glass products	-	41	18	0.8	11.3	0.8	1.2	7.9	27.3	25.6	52.2	1.9	(NA)	(NA)
327	Concrete, gypsum, and plaster products	-	26	12	0.5	8.3	0.4	0.9	6.2	18.0	17.5	35.0	1.6	0.5	10.1

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		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Waukesha County—Con.													
33	Primary metal industries	-	26	t5	2.8	44.3	2.2	4.4	32.4	83.9	51.4	133.3	7.8	2.8	45.8
34	Fabricated metal products	-	102	39	3.5	48.7	2.6	5.3	3t.7	102.4	t12.4	212.8	4.9	3.t	57.5
344	Fabricated structural metal products	E1	29	9	0.5	6.3	0.4	0.7	3.8	t3.9	25.7	39.8	0.4	1.1	t8.3
346	Metal forgings and stampings	-	16	9	0.9	t2.0	0.6	1.2	8.0	21.9	16.4	36.9	t.3	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	2t	7	0.6	8.0	0.4	0.9	5.2	17.1	t4.8	31.5	1.3	(NA)	(NA)
35	Machinery, except electrical	-	227	72	7.8	118.8	5.4	10.8	74.4	257.7	200.4	452.9	11.7	8.4	132.4
353	Construction and related machinery	-	t5	6	0.5	7.6	0.3	0.6	4.t	13.7	13.9	27.1	0.3	0.5	9.4
354	Metalworking machinery	-	76	20	2.3	35.3	1.7	3.4	24.0	69.5	52.0	119.7	3.8	1.6	38.4
3544	Special dies, tools, jigs, and fixtures	E1	52	t0	0.8	13.4	0.6	1.4	t0.2	20.9	7.9	28.1	2.2	(NA)	(NA)
356	General industrial machinery	-	29	t2	t.2	19.2	0.8	t.7	t1.7	43.0	30.6	72.t	2.4	1.4	28.2
359	Miscellaneous machinery, except electrical	E1	76	t9	0.9	t2.6	0.7	t.5	8.7	21.8	10.7	32.3	1.7	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E1	76	19	0.9	t2.6	0.7	1.5	8.7	21.8	10.7	32.3	1.7	(NA)	(NA)
36	Electric and electronic equipment	-	42	17	4.9	76.1	2.8	4.9	32.0	173.9	t29.9	290.9	24.5	2.7	64.8
362	Electrical industrial apparatus	-	t0	5	0.9	10.9	0.4	0.8	4.1	29.2	28.9	54.8	(D)	0.5	12.8
38	Instruments and related products	-	15	7	0.9	9.8	0.6	1.1	5.1	t6.8	t5.6	31.1	0.5	0.5	7.8
--	Administrative and auxiliary	-	t3	10	1.0	18.9	-	-	-	-	-	-	-	(NA)	(NA)
	Waupaca County	-	**93**	**34**	**3.8**	**37.8**	**2.8**	**5.7**	**26.1**	**81.2**	**130.0**	**207.8**	**5.9**	**3.4**	**51.5**
20	Food and kindred products	E1	25	5	0.8	3.7	0.4	0.9	2.2	4.7	43.6	47.t	1.2	0.5	9.9
203	Preserved fruits and vegetables	E1	4	2	0.5	0.7	0.2	0.4	0.4	1.5	t.6	3.1	(D)	(NA)	(NA)
24	Lumber and wood products	-	t3	5	0.6	8.4	0.5	t.2	4.9	8.9	18.5	25.1	0.7	(NA)	(NA)
37	Transportation equipment	-	tt	6	0.8	8.8	0.5	0.9	4.7	t8.1	t9.4	34.8	0.4	t.1	15.9
	Winnebago County	-	**282**	**138**	**21.3**	**295.0**	**14.6**	**28.7**	**179.0**	**618.8**	**752.4**	**1 356.9**	**35.3**	**t9.7**	**355.3**
20	Food and kindred products	-	24	8	0.5	6.3	0.3	0.6	3.0	19.6	36.8	56.1	2.5	0.8	7.5
24	Lumber and wood products	-	t6	8	1.4	t5.3	1.2	2.7	12.t	30.9	62.7	92.3	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members	-	9	6	1.3	14.4	1.1	2.5	tt.4	29.8	6t.5	90.0	(D)	(NA)	(NA)
26	Paper and allied products	-	37	3t	8.6	98.5	5.2	t0.5	73.5	268.0	365.2	628.3	t3.8	5.9	t45.3
264	Miscellaneous converted paper products	-	t5	12	3.0	44.2	2.5	4.9	33.8	t46.3	t84.5	327.2	(D)	2.5	75.7
2647	Sanitary paper products	-	3	3	1.4	20.3	t.1	2.2	15.8	80.4	90.2	168.6	(D)	(NA)	(NA)
265	Paperboard containers and boxes	-	t2	9	1.3	t9.4	1.0	2.0	t3.5	39.t	57.2	95.8	(D)	t.3	26.8
34	Fabricated metal products	E1	24	9	0.5	6.4	0.4	0.8	3.9	13.0	11.4	24.3	0.5	0.5	7.6
35	Machinery, except electrical	-	31	20	2.4	36.1	1.8	3.5	25.5	90.3	95.7	t84.4	3.4	2.4	56.9
--	Administrative and auxiliary	-	11	10	2.0	38.8	-	-	-	-	-	-	-	(NA)	(NA)
	Wood County	-	**122**	**51**	**11.4**	**175.3**	**8.1**	**18.0**	**108.6**	**343.4**	**557.1**	**900.2**	**42.7**	**10.2**	**178.6**
20	Food and kindred products	-	27	11	0.6	8.7	0.5	1.0	4.9	20.3	144.3	164.1	2.3	0.5	t0.3
202	Dairy products	-	20	9	0.8	8.0	0.5	0.9	4.4	18.9	139.7	158.0	2.2	(NA)	(NA)
24	Lumber and wood products	-	t9	10	t.8	20.7	1.5	3.0	16.2	46.8	60.7	t06.7	1.7	1.5	23.3

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 89 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and Industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Algoma	–	10	5	0.5	4.6	0.3	0.6	3.4	9.4	14.2	23.9	0.4	1.0	12.4
	Antigo	–	27	12	0.8	6.0	0.7	1.3	6.2	19.4	36.3	55.6	1.0	0.9	10.2
	Appleton	–	92	32	6.0	106.3	5.6	12.0	69.6	260.6	369.3	642.6	11.3	7.3	146.1
26	Paper and allied products	–	11	7	2.5	37.5	1.7	3.7	23.2	110.6	133.7	243.9	5.7	2.2	48.4
35	Machinery, except electrical	–	14	3	0.7	10.3	0.4	1.0	6.1	26.0	16.7	42.2	(D)	0.9	16.1
	Ashland	–	23	12	1.0	9.6	0.8	1.5	7.6	25.5	26.2	51.1	1.5	0.9	14.6
	Baraboo	–	23	13	1.7	14.6	1.4	2.7	10.2	43.7	35.2	77.6	2.3	3.7	52.6
	Beaver Dam	–	32	13	2.5	25.8	2.1	4.1	19.7	60.7	70.3	150.1	2.0	2.3	34.9
	Beloit	–	55	19	6.9	93.7	4.3	6.2	49.6	230.6	209.5	440.4	7.2	6.9	92.7
20	Food and kindred products	–	5	4	0.9	11.3	0.7	1.3	6.2	46.2	79.6	126.3	1.4	(NA)	(NA)
	Berlin	–	26	11	1.7	16.0	1.4	2.7	11.7	35.5	22.7	58.0	(D)	1.3	16.3
	Boscobel	–	9	4	0.6	7.0	0.7	1.4	5.9	6.3	31.3	39.6	0.6	(NA)	(NA)
	Brookfield	–	70	30	3.2	49.9	1.9	4.0	26.6	76.9	74.4	152.2	4.3	2.2	51.7
35	Machinery, except electrical	–	17	7	1.0	15.1	0.6	1.7	11.3	35.2	31.4	66.9	1.4	(NA)	(NA)
–	Administrative and auxiliary	–	6	4	0.7	12.7	–	–	–	–	–	–	–	(NA)	(NA)
	Brown Deer	–	21	10	1.6	25.7	1.2	2.2	15.2	51.8	31.9	62.1	5.5	1.4	29.9
	Burlington	–	32	14	2.1	23.6	1.7	3.4	17.2	115.5	89.3	203.4	3.6	(D)	(D)
	Cedarburg	–	39	16	2.6	33.3	2.0	3.9	24.5	60.2	71.7	130.5	4.9	2.1	35.2
	Chilton	–	16	7	0.7	8.4	0.6	1.3	8.6	36.0	40.9	77.0	(D)	0.8	18.3
	Chippewa Falls	–	47	17	2.4	25.1	1.5	3.4	16.4	66.2	124.9	169.9	4.3	1.5	25.9
31	Leather and leather products	–	3	3	1.0	6.5	0.4	1.3	5.2	20.0	25.9	45.6	(D)	0.6	9.6
314	Footwear, except rubber	–	3	3	1.0	8.5	0.4	1.3	5.2	20.0	25.9	45.6	(D)	(NA)	(NA)
3143	Men's footwear, except athletic	–	3	3	1.0	8.5	0.4	1.3	5.2	20.0	25.9	45.6	(D)	(NA)	(NA)
	Clintonville	–	16	6	0.6	9.2	0.5	1.0	4.9	20.2	20.7	36.2	0.6	1.2	16.3
	Columbus	–	16	6	0.5	5.2	0.4	0.8	3.8	10.4	9.6	19.4	0.8	0.5	6.8
	Cudahy	–	39	22	7.8	126.0	6.0	11.1	95.0	191.1	352.4	541.9	13.1	7.0	135.5
	Delavan	–	22	6	2.0	22.4	1.5	3.0	15.2	57.4	58.9	112.8	7.8	2.0	34.6
	De Pere	–	43	13	1.5	22.7	1.1	2.4	18.5	49.4	90.4	139.2	4.2	1.2	32.5
	Eau Claire	–	63	25	5.0	75.9	3.9	7.8	58.3	173.4	191.4	357.5	10.9	8.0	213.7
20	Food and kindred products	–	10	7	0.6	6.9	0.3	0.7	5.6	22.0	44.3	66.2	0.8	(NA)	(NA)
	Elkhorn	–	24	7	0.9	9.8	0.7	1.4	7.6	28.3	21.4	47.3	0.6	1.0	19.2
	Fond du Lac	–	49	28	5.0	66.7	3.6	7.1	45.2	146.2	226.8	371.3	8.0	5.3	94.9
20	Food and kindred products	–	5	3	0.5	7.2	0.4	0.9	5.5	21.3	108.2	128.5	(D)	0.5	19.0
	Fort Atkinson	–	24	12	2.0	28.6	1.3	2.5	18.1	52.9	72.6	122.8	2.3	2.4	37.3
	Germantown	–	34	10	0.6	6.3	0.4	0.8	4.5	15.5	22.1	37.3	1.5	(NA)	(NA)
	Glendale	–	53	27	5.7	89.0	3.7	7.7	52.9	180.3	165.3	335.4	8.7	4.1	80.3
	Grafton	–	43	21	3.2	39.1	2.6	5.1	28.4	79.3	84.9	183.2	3.6	2.8	50.7
35	Machinery, except electrical	–	12	4	1.2	17.7	0.9	1.8	13.0	37.2	44.1	81.2	1.5	(NA)	(NA)
	Green Bay	–	161	89	14.3	208.2	10.5	20.9	144.4	878.5	1 204.8	1 880.7	129.5	13.7	304.1
20	Food and kindred products	–	23	14	2.7	33.7	2.1	4.1	23.9	95.4	420.9	520.4	4.9	3.2	59.9
26	Paper and allied products	–	15	14	6.6	115.8	5.2	11.0	67.1	465.9	665.5	1 124.0	(D)	6.2	167.7
2621	Paper mills, except building paper	–	3	3	2.5	46.1	1.9	3.9	33.1	157.8	209.7	368.0	(D)	(NA)	(NA)
35	Machinery, except electrical	–	22	6	1.7	23.6	1.2	2.2	15.2	52.2	26.4	80.0	1.7	1.5	31.4
	Greendale	–	16	10	0.5	6.8	0.4	0.7	4.1	15.3	9.5	24.7	1.0	(NA)	(NA)
	Hartford	–	26	11	2.8	31.5	2.0	3.8	20.0	74.8	76.8	150.8	3.8	2.0	43.2
	Hudson	–	13	8	0.5	5.4	0.3	0.7	3.2	14.0	23.6	36.7	1.3	(D)	(D)
	Jefferson	–	18	6	2.2	27.3	1.3	2.8	13.1	64.8	138.4	233.7	2.2	2.1	65.4

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or mors and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Kaukauna	-	12	6	2.5	37.9	1.9	4.0	27.1	64.4	142.1	224.4	(D)	2.4	49.7
	Kenosha	-	105	34	16.0	225.5	12.0	19.2	156.5	372.1	1 010.0	1 369.3	12.5	14.5	347.4
	Kewaunee	-	14	5	0.6	6.9	0.5	1.1	5.3	12.7	10.3	22.9	0.2	0.7	9.5
	Kiel	-	19	6	0.6	7.2	0.4	0.6	4.7	20.4	42.3	60.5	0.6	0.5	7.6
	La Crosse	-	94	27	7.8	97.3	4.6	9.3	53.3	210.1	194.5	406.6	17.6	6.6	107.0
	Ladysmith	-	14	7	0.6	6.1	0.5	1.1	4.9	16.1	21.4	37.6	1.4	(NA)	(NA)
	Madison	-	210	62	11.3	161.3	7.3	14.3	106.6	333.5	596.1	930.6	16.9	11.6	204.9
20	Food and kindred products	-	23	14	4.5	80.1	3.4	6.7	61.2	160.3	448.2	607.4	7.3	5.1	100.5
27	Printing and publishing	-	68	10	1.4	18.8	0.8	1.8	11.9	43.6	25.9	69.0	4.0	1.2	25.9
36	Electric and electronic equipment	-	8	3	0.5	5.2	0.4	0.7	4.0	13.9	24.2	37.8	(D)	0.5	16.1
--	Administrative and auxiliary	-	8	4	1.4	30.5	-	-	-	-	-	-	-	(NA)	(NA)
	Manitowoc	-	64	45	9.6	113.1	6.5	13.3	73.4	244.6	256.5	499.9	27.0	6.5	117.7
20	Food and kindred products	-	15	9	0.9	10.8	0.5	1.2	5.1	32.1	69.6	102.5	2.3	(NA)	(NA)
33	Primary metal industries	-	3	3	0.5	7.0	0.5	0.9	6.2	10.3	10.4	20.6	(D)	(NA)	(NA)
	Marinette	-	31	14	3.1	41.0	2.2	4.5	27.9	67.2	139.1	226.1	33.2	2.3	49.0
	Marshfield	-	57	24	2.6	34.2	2.3	4.5	24.3	76.4	149.7	227.3	3.6	(D)	(D)
24	Lumber and wood products	-	11	7	1.5	19.0	1.3	2.6	14.8	43.5	56.0	98.8	(D)	(NA)	(NA)
	Mayville	-	20	11	2.0	25.2	1.5	2.9	17.6	59.1	46.7	102.5	2.1	1.6	30.2
	Medford	-	19	6	1.3	16.2	1.1	2.4	11.4	50.1	34.6	63.2	3.2	1.0	12.1
	Menasha	-	36	20	4.5	72.7	2.6	5.2	37.6	117.3	156.3	269.9	6.3	3.6	66.6
26	Paper and allied products	-	10	9	2.5	37.8	1.9	3.9	27.7	87.1	112.1	196.7	4.6	1.8	37.2
264	Miscellaneous converted paper products	-	4	3	0.9	13.8	0.7	1.5	10.1	40.3	50.1	88.9	0.9	(NA)	(NA)
	Menomonee Falls	-	122	51	4.2	55.3	2.9	5.6	33.4	96.9	95.9	191.9	5.5	3.1	53.4
34	Fabricated metal products	-	21	11	1.2	17.2	0.9	1.7	10.9	32.8	30.9	63.8	1.5	1.1	17.9
346	Metal forgings and stampings	-	7	4	0.7	9.6	0.5	0.9	6.6	17.4	13.1	29.0	(D)	(NA)	(NA)
35	Machinery, except electrical	-	37	10	0.9	13.2	0.8	1.2	7.9	25.8	19.6	44.1	1.3	0.5	13.1
	Menomonie	-	17	5	0.7	7.6	0.6	1.2	6.0	23.3	42.3	64.6	(D)	(D)	(D)
	Mequon	-	26	6	0.6	10.2	0.5	0.9	5.4	22.4	16.9	39.2	1.3	(NA)	(NA)
	Merrill	-	36	15	2.3	23.3	1.6	3.5	16.2	45.6	59.3	104.3	1.6	2.3	26.0
24	Lumber and wood products	-	12	7	1.1	11.9	0.9	1.8	8.5	21.7	33.5	54.6	(D)	(NA)	(NA)
	Middleton	-	36	6	1.2	13.5	0.9	1.6	6.5	37.5	26.0	63.2	3.9	0.9	20.6
	Milwaukee	-	1 192	465	91.4	1 397.6	60.5	119.1	646.3	2 736.6	2 660.9	5 360.4	162.2	106.3	1 696.2
201	Meat products	E4	21	9	1.1	15.8	0.8	1.6	10.7	30.1	152.3	182.2	1.1	(NA)	(NA)
205	Bakery products	-	13	7	1.1	13.8	0.5	1.0	6.3	35.7	19.9	55.6	0.6	(NA)	(NA)
208	Beverages	-	14	7	7.5	156.3	4.8	10.2	103.2	373.0	498.2	871.3	67.6	(NA)	(NA)
2653	Corrugated and solid fiber boxes	-	10	8	1.1	16.1	0.8	1.6	10.8	28.8	46.0	74.7	1.5	(NA)	(NA)
275	Commercial printing	-	115	21	2.5	37.3	1.8	3.8	25.5	62.2	59.2	120.8	4.7	(NA)	(NA)
2752	Commercial printing, lithographic	-	54	15	1.6	25.6	1.3	2.6	17.9	45.3	34.9	79.3	3.8	(NA)	(NA)
2782	Blankbooks and looseleaf binders	-	5	4	0.5	6.0	0.3	0.6	3.2	7.3	5.4	12.6	0.4	(NA)	(NA)
289	Miscellaneous chemical products	E1	26	9	0.5	7.7	0.2	0.4	2.4	16.8	23.9	40.5	0.6	(NA)	(NA)
3079	Miscellaneous plastics products	E1	27	17	1.3	14.6	1.1	2.1	10.5	27.2	29.7	56.8	3.3	(NA)	(NA)
3111	Leather tanning and finishing	-	16	12	2.0	24.6	1.6	3.2	17.4	57.0	87.3	141.8	2.0	(NA)	(NA)
332	Iron and steel foundries	-	15	13	2.7	37.9	2.2	4.2	29.0	70.8	32.0	101.2	5.7	(NA)	(NA)
336	Nonferrous foundries	-	7	4	0.7	8.3	0.6	1.1	6.0	16.1	10.2	25.6	0.8	(NA)	(NA)
341	Metal cans and shipping containers	-	4	3	1.6	29.1	1.3	2.6	23.4	79.8	112.5	190.2	(D)	(NA)	(NA)
342	Cutlery, hand tools, and hardware	-	10	6	1.8	22.3	1.4	2.4	14.9	67.4	27.8	94.5	(D)	(NA)	(NA)
344	Fabricated structural metal products	-	42	21	2.1	31.7	1.3	2.7	16.4	70.2	67.0	125.8	4.3	(NA)	(NA)
346	Metal forgings and stampings	-	21	14	1.3	20.6	1.1	2.2	15.8	40.6	46.3	86.7	4.3	(NA)	(NA)
3471	Plating and polishing	E1	29	5	0.5	4.6	0.4	0.7	3.3	7.4	3.3	10.6	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products	-	22	7	1.1	14.6	0.9	1.7	10.5	30.2	17.3	45.7	1.1	(NA)	(NA)
3494	Valves and pipe fittings	-	6	4	0.9	11.8	0.7	1.4	8.6	25.0	13.8	37.0	0.8	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
	Milwaukee—Con.														
353	Construction and related machinery	–	20	14	3.9	64.3	2.7	5.1	39.5	139.1	112.7	246.9	(D)	(NA)	(NA)
354	Metalworking machinery	E1	63	18	1.5	27.0	1.2	2.4	16.1	40.4	15.5	55.4	1.0	(NA)	(NA)
355	Special industry machinery	–	19	6	0.7	11.0	0.4	0.6	5.6	21.9	21.9	42.2	(D)	(NA)	(NA)
356	Refrigeration and service machinery	–	14	6	1.1	17.4	0.6	1.4	9.0	42.0	40.1	63.4	2.6	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	75	23	1.1	14.1	0.6	1.5	9.6	26.9	12.2	36.3	1.2	(NA)	(NA)
367	Electronic components and accessories	–	12	4	0.6	5.9	0.4	0.7	2.7	14.9	7.9	22.6	0.5	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	–	12	7	1.3	16.0	0.9	1.6	10.4	44.6	32.6	75.3	1.6	(NA)	(NA)
399	Miscellaneous manufactures	–	43	11	1.2	13.6	0.6	1.8	6.6	27.7	29.1	56.5	1.4	(NA)	(NA)
--	Administrative and auxiliary	–	36	25	3.6	82.9	–	–	–	–	–	–	–	(NA)	(NA)
	Monroe	–	32	13	1.5	14.3	1.3	2.4	10.9	41.5	95.9	135.8	4.1	1.5	32.2
	Neenah	–	52	34	8.1	91.6	4.3	6.8	59.5	214.2	251.1	462.1	14.3	5.7	120.8
26	Paper and allied products	–	13	12	3.0	47.2	2.5	5.0	36.7	146.7	192.5	337.2	5.0	2.7	76.8
27	Printing and publishing	–	13	5	0.5	6.6	0.4	0.7	4.9	12.2	8.2	18.2	(D)	(NA)	(NA)
275	Commercial printing	–	6	5	0.5	6.4	0.4	0.7	4.6	11.6	5.9	17.4	(D)	(NA)	(NA)
	Nellsville	–	18	4	0.6	5.0	0.5	0.6	4.4	11.4	14.2	24.9	0.5	(NA)	(NA)
	New Berlin	–	106	50	4.3	65.7	3.0	5.9	41.0	143.1	109.4	247.3	6.6	2.6	68.8
27	Printing and publishing	–	13	7	0.9	15.9	0.7	1.4	12.3	30.9	26.5	57.2	1.2	0.5	10.1
35	Machinery, except electrical	–	36	16	1.5	24.0	1.0	2.0	14.6	46.7	27.9	72.1	2.2	1.0	22.5
354	Metalworking machinery	–	10	4	0.5	7.9	0.4	0.7	5.3	13.8	7.7	20.7	1.1	(NA)	(NA)
36	Electric and electronic equipment	–	10	6	0.6	11.1	0.5	1.0	5.7	36.1	25.7	59.6	(D)	0.6	24.8
	New Holstein	–	13	7	2.2	27.7	1.9	3.4	22.5	54.0	101.2	154.9	1.1	2.3	36.9
	New London	–	20	9	2.0	24.4	1.5	2.6	14.6	69.1	150.1	216.6	(D)	1.3	26.8
	New Richmond	–	14	6	0.9	12.1	0.8	1.3	7.1	30.4	27.0	56.9	0.7	0.9	28.6
	Oak Creek	–	59	29	5.0	62.6	3.6	7.3	56.5	412.9	385.0	800.4	14.5	1.7	34.4
	Oconomowoc	–	40	17	1.6	20.5	1.3	2.7	14.5	65.2	99.6	182.4	2.2	1.5	30.5
	Oconto	–	19	9	0.9	6.4	0.7	1.7	6.2	16.9	24.1	41.5	0.5	(D)	(D)
	Oshkosh	–	117	54	6.0	99.1	5.6	11.1	62.5	215.5	252.9	483.4	7.7	7.5	123.5
35	Machinery, except electrical	–	17	10	1.9	27.8	1.5	2.9	21.0	66.8	79.6	146.9	2.6	1.6	43.6
	Peshtigo	–	17	6	0.6	10.9	0.7	1.4	8.6	23.7	27.6	51.0	1.2	(D)	(D)
	Pewaukee	–	17	10	0.6	11.5	0.8	1.1	7.3	29.9	18.2	45.3	2.4	0.6	8.3
	Plymouth	–	20	6	1.4	17.3	1.1	2.1	12.3	67.8	163.1	255.3	1.1	1.6	30.1
	Portage	–	24	6	1.3	11.0	1.2	2.2	8.5	21.8	33.6	51.8	1.9	1.1	23.6
	Port Washington	–	21	10	1.7	23.9	1.1	2.0	13.1	45.9	56.4	103.2	2.9	1.9	43.5
	Prairie du Chien	–	15	8	0.8	9.2	0.8	1.3	8.6	53.8	44.9	97.6	1.5	(D)	(D)
	Racine	–	271	94	17.3	241.8	10.2	19.4	115.0	372.5	294.0	663.2	29.8	17.8	271.7
27	Printing and publishing	–	23	5	1.5	19.3	0.6	1.5	8.7	42.1	31.7	73.0	1.1	0.7	13.8
33	Primary metal industries	–	15	7	1.9	27.2	1.6	3.1	21.3	50.3	38.0	86.9	8.2	1.7	14.3
354	Metalworking machinery	–	34	7	0.7	10.7	0.5	1.0	6.3	22.3	13.5	35.7	1.3	(NA)	(NA)
36	Electric and electronic equipment	–	26	13	2.5	25.3	1.6	3.5	14.7	65.8	54.6	120.7	(D)	1.9	36.8
362	Electrical industrial apparatus	–	16	7	1.3	10.3	1.0	1.9	6.3	18.0	20.4	38.1	1.3	(NA)	(NA)
3621	Motors and generators	–	13	7	1.2	10.0	1.0	1.9	6.2	17.3	20.0	37.0	1.3	(NA)	(NA)
	Reedsburg	–	17	7	1.2	11.7	0.9	1.9	8.4	34.0	78.7	112.4	2.1	1.1	20.0
	Rhinelander	–	26	11	1.9	28.5	1.4	2.9	19.4	43.8	85.1	127.1	4.1	1.5	29.8
	Rice Lake	–	26	12	1.5	13.9	1.2	2.4	10.0	26.8	39.0	88.9	3.8	1.1	14.7
	Richland Center	–	24	7	0.7	6.7	0.6	1.5	5.2	29.2	61.3	69.2	(D)	0.8	11.6
	Ripon	–	21	13	1.9	20.1	1.5	2.8	12.8	55.2	73.7	129.7	2.5	2.3	33.0
	Rothschild	–	7	6	1.1	16.4	0.7	1.5	10.9	29.6	53.9	82.8	(D)	(D)	(D)
	St. Francis	–	21	7	0.5	4.9	0.4	0.8	3.5	10.0	10.3	19.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes citias with 450 employeas or more and industry groups and industries with 450 employees or more within cities, excapt those that would disclose operations of individual companias. For explanation of terms, see appendix B]

SIC coda	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufactura (million dollars)
	Schofield	-	27	10	1.8	30.7	1.1	2.3	18.4	85.3	88.4	149.0	2.7	1.4	30.5
	Shawano	-	34	11	0.9	10.3	0.7	1.4	8.4	17.7	30.7	47.8	1.7	0.9	9.5
	Sheboygan	-	123	85	7.9	94.0	5.8	11.3	59.1	185.3	279.1	483.9	13.5	8.1	133.3
20	Food and kindred products	-	17	8	0.6	5.8	0.4	0.8	3.4	9.8	52.4	62.3	2.4	0.6	11.8
30	Rubber and miscallaneous plastics products	E1	10	8	0.6	6.5	0.4	0.9	4.7	20.3	28.7	47.4	0.5	(NA)	(NA)
3079	Miscellaneous plastics products	E1	10	8	0.6	6.5	0.4	0.9	4.7	20.3	26.7	47.4	0.5	(NA)	(NA)
35	Machinery, except electrical	-	18	7	0.6	7.7	0.4	0.9	4.9	10.1	12.4	22.1	0.6	0.9	15.4
	Sheboygan Falls	-	20	8	0.8	10.3	0.8	1.2	7.2	21.0	30.7	50.8	1.8	1.1	20.8
	South Milwaukee	-	28	9	4.2	60.9	2.5	4.9	33.8	188.5	124.5	309.4	9.1	4.0	71.7
	Sparta	-	18	9	1.4	12.6	1.1	2.1	7.7	21.8	33.9	56.1	1.5	0.8	12.3
	Stevens Point	-	41	19	2.1	24.3	1.8	3.3	18.8	47.9	53.7	101.3	(D)	1.8	25.8
25	Furniture and fixturas	-	7	4	0.7	7.9	0.5	1.1	5.3	15.1	14.0	29.7	(D)	(NA)	(NA)
	Stoughton	-	28	8	0.9	10.0	0.7	1.2	6.6	27.9	39.1	88.8	1.9	0.6	14.8
	Sturgeon Bay	-	33	14	3.5	38.8	3.1	5.6	29.8	111.4	93.2	205.3	7.2	1.8	21.4
	Sun Prairie	-	15	5	0.7	8.4	0.8	1.2	6.5	22.8	17.8	40.4	(D)	0.6	11.0
	Two Rivers	-	25	11	4.1	43.8	3.0	5.8	27.7	90.0	73.1	183.1	3.4	4.0	62.7
	Union Grove	-	11	6	0.5	8.2	0.4	0.8	3.8	11.5	8.7	20.3	1.0	(NA)	(NA)
	Watertown	-	42	18	3.0	39.0	2.1	4.1	20.9	79.7	106.2	182.5	4.3	2.1	38.2
	Waukesha	-	138	54	10.0	153.6	6.8	13.5	97.1	355.1	297.7	844.3	37.8	8.7	182.2
33	Primary matal industries	-	13	10	2.6	41.5	2.0	4.0	30.3	80.0	47.8	125.9	7.3	(NA)	(NA)
332	Iron and steel foundries	-	6	6	2.2	36.6	1.7	3.4	26.6	71.7	39.6	109.5	(D)	(NA)	(NA)
34	Fabricated metal products	-	14	5	0.9	13.1	0.6	1.4	8.8	25.9	14.7	40.0	1.0	(NA)	(NA)
35	Machinery, except electrical	-	46	17	3.0	45.8	2.0	3.9	27.5	111.2	95.1	206.9	4.2	2.9	56.6
356	Ganeral industrial machinery	-	10	4	0.6	9.7	0.4	0.9	6.1	21.3	19.2	40.4	1.3	(NA)	(NA)
	Waupaca	-	14	8	1.2	15.3	1.0	2.3	12.2	37.0	40.6	77.0	(D)	0.9	13.7
	Waupun	-	18	4	0.6	8.8	0.5	0.9	8.3	25.2	23.5	48.3	(D)	1.2	23.4
	Wausau	-	84	36	5.5	69.2	4.0	8.0	45.4	140.0	192.4	331.2	7.0	5.7	85.9
24	Lumber and wood products	-	12	5	1.1	13.6	1.0	2.1	10.2	22.1	25.6	46.4	0.6	1.1	16.3
34	Fabricated metal products	-	11	6	0.6	6.7	0.4	0.8	4.2	12.1	12.6	24.3	1.2	(NA)	(NA)
	Wauwatosa	-	88	35	10.1	150.3	8.5	16.0	118.8	293.6	222.0	513.4	11.3	8.7	193.1
	West Allis	-	150	80	14.5	221.1	9.2	18.2	124.4	490.1	411.7	883.5	29.9	13.6	261.6
205	Bakery products	-	4	3	1.1	5.9	0.7	1.1	4.5	12.6	9.3	21.9	0.4	(NA)	(NA)
2051	Bread, cake, and relatad products	-	4	3	1.1	5.9	0.7	1.1	4.5	12.6	9.3	21.9	0.4	(NA)	(NA)
332	Iron and steel foundries	-	5	5	1.4	21.6	1.1	2.3	16.9	40.0	29.5	69.0	3.0	(NA)	(NA)
351	Engines and turbines	-	4	4	2.0	32.0	1.6	2.8	24.1	77.6	60.5	132.2	(D)	(NA)	(NA)
	West Bend	-	47	15	5.4	64.9	3.5	6.8	38.4	149.3	136.8	282.0	3.8	5.8	96.5
	West Milwaukee	-	48	29	10.2	155.6	6.6	12.7	97.8	344.8	335.6	889.4	16.6	11.1	214.1
208	Bavarages	-	3	3	0.5	8.0	0.2	0.5	4.0	28.9	60.4	95.4	0.4	(NA)	(NA)
	Whitewater	-	18	8	0.6	8.7	0.5	0.8	4.2	14.6	56.7	71.2	2.2	0.7	9.6
	Wisconsin Rapids	-	32	13	4.7	74.3	3.4	8.6	47.6	162.8	238.7	399.4	(D)	(D)	(D)

Note: "City" level includas data on number of establishments, total amployment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Rapresents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Lass than 50 thousand dollars or hours; under 50 employaas.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) wera obtained from administrative records of othar govarnment agancies rathar than from cansus report forms. These data wara than used in conjunction with industry averagas to astimate tha balance of itams shown for thasa small astablishments. This tachniqua was also used for a small numbar of other establishments whose reports wera not received at time data wera tabulated. The following symbols ara shown for those industry groups and industrias whara astimatad data basad on administrative records data account for 10 percent or mora of figures shown: E1—10 to 19 percent; E2—20 to 29 percant; E3—30 to 39 percent; E4—40 to 49 percant; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 parcant; E0—100 percent.

[2]Aggregata of cost of materials and value of shipmants for industry groups (2- and 3-digit) and for all manufacturing industrias includes extensive duplication, since products of soma industries are used as materials by others (see appandix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
WISCONSIN	8678	1205	5	50	144	903	169	226	1143	228	34	278	111	443	233	835	1512	315	178	119	350	197
1 TO 4 EMPLOYEES	3133	422	3	17	52	458	53	31	585	77	10	61	22	184	39	248	492	84	64	46	160	25
5 TO 9 EMPLOYEES	1163	158	2	4	15	125	26	10	167	33	12	23	7	82	15	99	252	34	20	13	42	24
10 TO 19 EMPLOYEES	1219	166	-	5	13	118	16	20	152	32	6	39	11	74	35	137	248	40	19	10	52	26
20 TO 49 EMPLOYEES	1370	195	-	4	32	104	32	39	123	52	4	70	19	73	37	171	246	36	20	17	51	45
50 TO 99 EMPLOYEES	746	130	-	5	11	48	19	33	64	19	-	42	17	19	39	75	119	24	25	9	21	27
100 TO 249 EMPLOYEES	582	92	-	7	11	35	14	46	34	8	2	32	23	4	34	57	73	41	13	13	16	27
250 TO 499 EMPLOYEES	258	30	-	7	9	11	6	22	14	6	-	9	7	5	18	28	30	30	7	6	5	8
500 TO 999 EMPLOYEES	146	8	-	1	1	3	2	20	3	-	-	1	5	2	15	14	32	17	3	4	3	12
1000 TO 2499 EMPLOYEES	48	2	-	-	-	1	1	5	-	1	-	1	-	-	1	5	15	8	4	1	-	3
2500 EMPLOYEES AND OVER	13	2	-	-	-	-	-	-	1	-	-	-	-	-	-	1	5	1	3	-	-	-
ADAMS COUNTY	13	2	-	-	-	5	-	1	1	-	-	1	-	1	-	1	-	1	-	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	3	-	-	1	-	-	1	-	-	-	-	-	1	-	-	-	-
20 TO 99 EMPLOYEES	5	1	-	-	-	2	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ASHLAND COUNTY	49	5	-	-	1	30	-	2	4	-	-	-	-	1	-	2	4	-	-	-	-	-
1 TO 19 EMPLOYEES	34	4	-	-	-	24	-	-	3	-	-	-	-	-	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	12	1	-	-	-	5	-	1	1	-	-	-	-	1	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BARRON COUNTY	76	25	-	-	2	11	1	-	5	-	-	3	-	7	1	7	6	-	5	-	3	-
1 TO 19 EMPLOYEES	48	14	-	-	1	7	-	-	4	-	-	2	-	5	1	2	5	-	4	-	3	-
20 TO 99 EMPLOYEES	20	9	-	-	1	2	1	-	1	-	-	-	-	1	-	3	1	-	1	-	-	-
100 TO 249 EMPLOYEES	4	1	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	1	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-
BAYFIELD COUNTY	31	3	-	-	-	17	-	-	3	-	-	-	-	3	-	1	3	-	-	-	1	-
1 TO 19 EMPLOYEES	27	3	-	-	-	15	-	-	3	-	-	-	-	3	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
BROWN COUNTY	279	49	-	-	6	23	4	21	48	4	-	5	4	17	9	19	42	-	6	8	8	6
1 TO 19 EMPLOYEES	168	24	-	-	5	13	3	3	41	2	-	3	1	13	3	9	29	-	5	6	7	1
20 TO 99 EMPLOYEES	70	12	-	-	1	10	-	7	3	2	-	2	1	4	6	8	8	-	-	1	-	5
100 TO 249 EMPLOYEES	19	8	-	-	-	-	1	3	2	-	-	-	1	-	-	2	2	-	-	-	-	-
250 EMPLOYEES AND OVER	22	5	-	-	-	-	-	8	2	-	-	-	1	-	-	-	3	-	1	1	1	-
BUFFALO COUNTY	23	5	-	-	-	11	-	-	3	1	-	-	-	-	-	-	1	-	-	1	-	1
1 TO 19 EMPLOYEES	21	3	-	-	-	11	-	-	3	1	-	-	-	-	-	-	1	-	-	1	-	1
20 TO 99 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BURNETT COUNTY	24	1	-	-	-	7	1	-	-	-	-	1	1	2	-	3	3	3	2	-	-	-
1 TO 19 EMPLOYEES	15	-	-	-	-	5	-	-	-	-	-	-	1	2	-	1	2	2	2	-	-	-
20 TO 99 EMPLOYEES	9	1	-	-	-	2	1	-	-	-	-	1	-	-	-	2	1	1	-	-	-	-
CALUMET COUNTY	59	21	-	1	-	-	2	-	5	-	-	-	1	4	3	5	12	1	1	-	3	-
1 TO 19 EMPLOYEES	35	11	-	1	-	-	1	-	5	-	-	-	-	4	1	2	6	1	1	-	2	-
20 TO 99 EMPLOYEES	16	10	-	-	-	-	1	-	-	-	-	-	-	-	-	1	3	-	-	-	1	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	-	-	-	-	-
CHIPPEWA COUNTY	103	20	-	-	-	21	2	3	12	-	-	4	4	6	1	10	11	3	1	-	5	-
1 TO 19 EMPLOYEES	70	12	-	-	-	19	1	1	10	-	-	2	1	5	1	7	4	2	1	-	4	-
20 TO 99 EMPLOYEES	19	5	-	-	-	2	-	1	2	-	-	-	-	1	-	1	5	1	-	-	1	-
100 TO 249 EMPLOYEES	11	2	-	-	-	-	1	1	-	-	-	2	2	-	-	1	2	-	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
CLARK COUNTY	97	42	-	-	-	17	1	1	10	1	-	1	-	1	1	7	10	-	2	2	-	1
1 TO 19 EMPLOYEES	79	34	-	-	-	14	1	-	10	1	-	1	-	1	-	6	8	-	-	2	-	1
20 TO 99 EMPLOYEES	15	8	-	-	-	2	-	1	-	-	-	-	-	-	-	1	2	-	1	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
COLUMBIA COUNTY	85	16	-	1	3	2	2	-	19	2	-	2	3	4	3	1	15	3	1	2	3	3
1 TO 19 EMPLOYEES	52	7	-	1	1	2	1	-	16	2	-	-	1	4	1	1	8	1	1	1	2	2
20 TO 99 EMPLOYEES	21	6	-	-	1	-	1	-	3	-	-	1	-	-	1	-	5	1	-	-	1	1
100 TO 249 EMPLOYEES	11	3	-	-	1	-	-	-	-	-	-	1	2	-	1	-	2	-	-	1	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
CRAWFORD COUNTY	33	10	-	-	-	11	1	-	4	2	-	-	-	3	-	-	1	-	1	-	-	-
1 TO 19 EMPLOYEES	26	9	-	-	-	7	1	-	4	1	-	-	-	2	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	5	1	-	-	-	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
DANE COUNTY	436	57	1	1	5	20	9	4	109	19	2	20	2	19	9	28	55	15	8	12	23	18
1 TO 19 EMPLOYEES	304	30	1	-	5	15	6	2	91	12	2	10	2	11	4	17	41	11	6	8	23	7
20 TO 99 EMPLOYEES	98	22	-	-	-	3	2	1	15	7	-	7	-	7	3	9	11	1	2	1	-	7
100 TO 249 EMPLOYEES	17	3	-	-	-	1	-	1	1	-	-	3	-	-	1	1	2	2	-	2	-	-
250 EMPLOYEES AND OVER	17	2	-	1	-	1	1	-	2	-	-	-	-	1	1	1	1	1	-	1	-	4
DODGE COUNTY	144	31	-	1	1	3	6	5	12	-	1	1	3	15	3	15	32	3	3	-	7	2
1 TO 19 EMPLOYEES	86	15	-	-	1	1	2	1	10	-	1	1	1	14	-	5	22	1	2	-	7	2
20 TO 99 EMPLOYEES	37	8	-	1	-	2	3	4	2	-	-	-	-	1	2	6	6	1	1	-	-	-
100 TO 249 EMPLOYEES	11	6	-	-	-	-	-	-	-	-	-	-	1	-	1	3	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	2	-	-	-	-	1	-	-	-	-	-	1	-	-	1	4	1	-	-	-	-
DOOR COUNTY	48	8	-	-	1	4	-	-	6	1	-	2	1	4	-	5	5	1	4	-	6	-
1 TO 19 EMPLOYEES	34	7	-	-	1	4	-	-	5	1	-	1	-	4	-	1	4	-	1	-	5	-
20 TO 99 EMPLOYEES	8	1	-	-	-	-	-	-	1	-	-	1	-	-	-	3	1	-	-	-	1	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-
DOUGLAS COUNTY	49	4	-	-	2	10	-	-	9	1	3	-	-	7	2	2	5	-	1	-	2	1
1 TO 19 EMPLOYEES	37	1	-	-	2	7	-	-	7	1	2	-	-	6	2	1	4	-	1	-	2	1
20 TO 99 EMPLOYEES	9	2	-	-	-	2	-	-	2	-	-	-	-	1	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
DUNN COUNTY	35	7	-	-	1	10	-	1	5	-	-	-	-	2	1	2	4	1	-	1	-	-
1 TO 19 EMPLOYEES	26	5	-	-	-	9	-	1	4	-	-	-	-	2	-	2	2	-	-	1	-	-
20 TO 99 EMPLOYEES	6	1	-	-	-	1	-	-	1	-	-	-	-	-	1	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
EAU CLAIRE COUNTY	74	11	-	-	1	5	3	3	15	1	1	1	1	8	-	6	8	2	-	-	7	1
1 TO 19 EMPLOYEES	50	4	-	-	1	4	3	1	11	1	1	-	1	5	-	5	5	2	-	-	5	1
20 TO 99 EMPLOYEES	15	5	-	-	-	1	-	-	2	-	-	-	-	3	-	1	2	-	-	-	1	-
100 TO 249 EMPLOYEES	6	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	1	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-
FLORENCE COUNTY	5	-	-	-	-	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FOND OU LAC COUNTY	139	32	-	-	5	3	1	2	15	-	-	1	3	16	3	11	25	5	1	1	11	4
1 TO 19 EMPLOYEES	79	17	-	-	3	-	1	-	11	-	-	-	-	14	-	4	16	2	1	1	8	1
20 TO 99 EMPLOYEES	35	8	-	-	-	2	-	1	3	-	-	1	2	2	2	6	5	-	-	-	2	1
100 TO 249 EMPLOYEES	15	5	-	-	2	1	-	1	1	-	-	-	-	-	-	1	1	1	-	-	1	1
250 EMPLOYEES AND OVER	10	2	-	-	-	-	-	-	-	-	-	-	1	-	1	-	3	2	-	-	-	1
FOREST COUNTY	40	-	-	-	-	31	1	-	3	-	-	-	1	-	-	1	1	-	1	-	1	-
1 TO 19 EMPLOYEES	36	-	-	-	-	29	-	-	3	-	-	-	-	-	-	1	1	-	1	-	1	-
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRANT COUNTY	78	27	-	-	1	9	1	-	11	1	-	-	-	6	-	6	6	6	-	-	1	3
1 TO 19 EMPLOYEES	58	22	-	-	-	7	1	-	10	1	-	-	-	4	-	6	3	-	-	-	1	3
20 TO 99 EMPLOYEES	16	5	-	-	1	2	-	-	1	-	-	-	-	2	-	-	3	2	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
GREEN COUNTY	64	29	-	-	2	5	-	-	7	1	-	1	-	2	3	2	8	2	-	-	2	-
1 TO 19 EMPLOYEES	44	20	-	-	1	5	-	-	5	1	-	-	-	1	1	2	6	-	-	-	2	-
20 TO 99 EMPLOYEES	14	9	-	-	-	-	-	-	1	-	-	-	-	1	1	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	1	-	-	-	1	-	-	1	-	-	1	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
GREEN LAKE COUNTY	52	7	-	3	4	-	-	2	8	-	-	5	6	2	3	6	2	-	1	1	2	-
1 TO 19 EMPLOYEES	32	4	-	-	3	-	-	2	8	-	-	4	1	2	1	4	2	-	1	-	-	-
20 TO 99 EMPLOYEES	13	2	-	2	1	-	-	-	-	-	-	1	4	-	-	2	-	-	-	1	-	-
100 TO 249 EMPLOYEES	5	1	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	2	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
IOWA COUNTY	33	19	-	-	-	3	-	-	2	-	-	-	-	2	1	1	-	3	1	-	1	-
1 TO 19 EMPLOYEES	28	17	-	-	-	1	-	-	2	-	-	-	-	2	1	1	-	3	-	-	1	-
20 TO 99 EMPLOYEES	5	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
IRON COUNTY	16	2	-	-	-	8	-	-	1	-	-	-	1	-	-	-	-	-	3	1	-	-
1 TO 19 EMPLOYEES	14	2	-	-	-	8	-	-	1	-	-	-	1	-	-	-	-	-	2	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
JACKSON COUNTY	21	5	-	1	-	6	-	-	2	1	-	1	-	1	-	1	1	1	1	-	-	-
1 TO 19 EMPLOYEES	15	3	-	1	-	5	-	-	2	1	-	-	-	1	-	1	-	1	-	-	-	-
20 TO 99 EMPLOYEES	3	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-
JEFFERSON COUNTY	129	24	-	2	1	5	5	1	15	4	-	7	2	8	4	12	24	5	1	2	4	3
1 TO 19 EMPLOYEES	73	12	-	2	-	3	1	1	10	3	-	5	-	7	1	9	12	1	1	1	3	1
20 TO 99 EMPLOYEES	33	6	-	-	1	2	3	-	3	1	-	1	1	1	2	2	8	1	-	-	1	-
100 TO 249 EMPLOYEES	12	5	-	-	-	-	-	-	1	-	-	1	1	-	1	-	1	-	-	-	-	2
250 EMPLOYEES AND OVER	11	1	-	-	-	-	1	-	1	-	-	-	-	-	-	1	3	3	-	1	-	-
JUNEAU COUNTY	37	8	-	-	1	10	-	-	1	-	-	1	-	1	1	6	3	2	1	-	1	1
1 TO 19 EMPLOYEES	23	6	-	-	-	8	-	-	1	-	-	-	-	-	1	2	2	1	-	-	1	1
20 TO 99 EMPLOYEES	9	1	-	-	1	2	-	-	-	-	-	1	-	-	-	4	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
KENOSHA COUNTY	145	12	-	1	3	3	4	1	20	1	-	4	-	9	4	23	35	6	10	1	6	2
1 TO 19 EMPLOYEES	101	8	-	1	2	3	1	-	17	-	-	3	-	5	-	18	28	3	7	1	3	1
20 TO 99 EMPLOYEES	29	3	-	-	-	-	3	1	2	1	-	1	-	3	2	3	5	1	2	-	2	-
100 TO 249 EMPLOYEES	6	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1	1	-	-	-	1	1
250 EMPLOYEES AND OVER	9	1	-	-	1	-	-	-	-	-	-	-	-	-	2	1	1	2	1	-	-	-
KEWAUNEE COUNTY	41	15	-	-	-	3	3	-	5	1	-	1	-	2	-	5	4	-	-	-	1	1
1 TO 19 EMPLOYEES	29	13	-	-	-	1	2	-	4	1	-	-	-	2	-	3	1	-	-	-	1	1
20 TO 99 EMPLOYEES	9	2	-	-	-	1	1	-	1	-	-	1	-	-	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
LA CROSSE COUNTY	129	18	1	-	3	12	-	1	25	2	-	4	-	9	4	12	20	3	4	2	9	-
1 TO 19 EMPLOYEES	90	13	1	-	1	9	-	1	19	2	-	2	-	7	2	6	15	2	2	1	7	-
20 TO 99 EMPLOYEES	20	2	-	-	-	2	-	-	3	-	-	-	-	2	2	2	3	1	1	1	1	-
100 TO 249 EMPLOYEES	11	2	-	-	-	1	-	-	3	-	-	-	-	-	-	3	1	-	1	-	-	-
250 EMPLOYEES AND OVER	8	1	-	-	2	-	-	-	-	-	-	2	-	-	-	1	1	-	-	-	1	-
LAFAYETTE COUNTY	32	23	-	-	-	-	-	-	3	-	-	-	-	1	-	-	1	-	1	-	1	2
1 TO 19 EMPLOYEES	28	21	-	-	-	-	-	-	3	-	-	-	-	-	-	-	1	-	-	-	1	2
20 TO 99 EMPLOYEES	4	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-
LANGLAOE COUNTY	50	6	-	-	-	20	1	-	5	-	-	2	-	3	-	2	6	1	1	-	3	-
1 TO 19 EMPLOYEES	34	1	-	-	-	16	1	-	5	-	-	1	-	3	-	-	4	1	1	-	1	-
20 TO 99 EMPLOYEES	12	4	-	-	-	3	-	-	-	-	-	1	-	-	-	1	2	-	-	-	1	-
100 TO 249 EMPLOYEES	4	1	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
LINCOLN COUNTY	63	7	-	-	-	19	-	4	7	1	1	1	1	2	1	8	5	2	2	-	1	1
1 TO 19 EMPLOYEES	41	5	-	-	-	12	-	-	6	1	1	1	-	2	-	4	5	2	1	-	1	-
20 TO 99 EMPLOYEES	13	2	-	-	-	2	-	2	1	-	-	-	-	-	1	3	-	-	1	-	-	1
100 TO 249 EMPLOYEES	6	-	-	-	-	4	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
MANITOWOC COUNTY	149	27	-	1	1	10	3	2	10	4	-	7	1	14	5	22	26	3	4	1	4	4
1 TO 19 EMPLOYEES	79	13	-	-	1	7	1	-	7	2	-	4	-	10	2	12	14	-	3	-	1	2
20 TO 99 EMPLOYEES	40	9	-	1	-	2	1	1	3	1	-	3	-	4	1	4	6	2	-	-	2	-
100 TO 249 EMPLOYEES	17	4	-	-	-	1	1	1	-	1	-	-	1	-	1	1	3	-	1	-	1	1
250 EMPLOYEES AND OVER	13	1	-	-	-	-	-	-	-	-	-	-	-	-	1	5	3	1	-	1	-	1
MARATHON COUNTY	212	47	-	-	2	34	1	7	14	7	1	4	2	11	3	22	31	4	7	2	8	5
1 TO 19 EMPLOYEES	141	39	-	-	2	20	1	1	12	3	1	1	2	6	2	15	21	2	7	1	5	-
20 TO 99 EMPLOYEES	45	6	-	-	-	9	-	-	1	4	-	3	-	4	1	4	4	1	-	1	3	4
100 TO 249 EMPLOYEES	13	-	-	-	-	1	-	2	1	-	-	-	-	1	-	3	4	-	-	-	-	1
250 EMPLOYEES AND OVER	13	2	-	-	-	4	-	4	-	-	-	-	-	-	-	-	2	1	-	-	-	-
MARINETTE COUNTY	110	12	-	-	2	52	2	6	5	-	-	2	2	4	3	5	10	-	3	-	2	-
1 TO 19 EMPLOYEES	77	10	-	-	2	45	-	-	4	-	-	1	1	4	2	2	6	-	-	-	-	-
20 TO 99 EMPLOYEES	19	2	-	-	-	6	2	1	1	-	-	1	1	-	-	1	1	-	2	-	1	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	-	-	1	-	4	-	-	-	-	-	-	-	1	2	-	1	-	1	-

See footnotes at end of table.

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State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
MARQUETTE COUNTY	18	4	-	-	1	4	1	-	1	1	-	-	-	1	-	1	3	-	1	-	-	-
1 TO 19 EMPLOYEES	12	2	-	-	1	3	1	-	1	1	-	-	-	1	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	5	1	-	-	-	1	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MENOMINEE COUNTY	8	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	7	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MILWAUKEE COUNTY	1792	114	1	15	43	47	29	41	278	85	9	49	34	50	66	224	391	89	35	30	93	69
1 TO 19 EMPLOYEES	1057	50	1	9	20	38	22	14	217	50	7	24	14	35	24	122	242	43	15	20	64	26
20 TO 99 EMPLOYEES	491	38	-	3	19	8	6	18	49	27	2	21	13	14	17	64	105	19	14	7	22	25
100 TO 249 EMPLOYEES	123	15	-	2	2	1	1	8	7	4	-	3	4	-	15	17	16	9	2	-	5	12
250 EMPLOYEES AND OVER	121	11	-	1	2	-	-	1	5	4	-	1	3	1	10	21	28	18	4	3	2	6
MONROE COUNTY	45	11	-	-	-	5	2	1	7	-	-	4	-	2	1	3	7	-	-	-	2	-
1 TO 19 EMPLOYEES	30	9	-	-	-	4	1	-	5	-	-	2	-	2	-	1	5	-	-	-	1	-
20 TO 99 EMPLOYEES	10	2	-	-	-	1	1	-	2	-	-	2	-	-	-	-	1	-	-	-	1	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
OCONTO COUNTY	70	16	-	-	2	23	1	3	5	1	-	-	4	2	-	4	4	1	2	-	1	1
1 TO 19 EMPLOYEES	44	10	-	-	-	19	-	1	5	1	-	-	-	1	-	3	1	1	1	-	1	-
20 TO 99 EMPLOYEES	18	3	-	-	2	3	1	-	-	-	-	-	4	1	-	1	2	-	-	-	-	1
100 TO 249 EMPLOYEES	7	3	-	-	-	1	-	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
ONEIDA COUNTY	51	5	-	-	-	20	-	2	8	-	-	-	1	7	1	1	1	1	1	-	3	-
1 TO 19 EMPLOYEES	37	1	-	-	-	17	-	-	5	-	-	-	1	7	1	1	-	-	1	-	3	-
20 TO 99 EMPLOYEES	10	4	-	-	-	2	-	1	2	-	-	-	-	-	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-
OUTAGAMIE COUNTY	179	31	1	4	1	10	3	17	26	8	1	4	-	11	3	10	31	6	2	3	6	1
1 TO 19 EMPLOYEES	102	13	1	1	1	6	2	4	22	6	1	2	-	8	-	7	21	2	-	2	3	-
20 TO 99 EMPLOYEES	41	12	-	-	-	4	-	2	3	2	-	1	-	3	2	3	5	1	1	-	2	-
100 TO 249 EMPLOYEES	15	4	-	2	-	-	-	3	-	-	-	-	-	-	-	-	2	2	-	1	-	1
250 EMPLOYEES AND OVER	21	2	-	1	-	-	1	8	1	-	-	1	-	-	1	-	3	1	1	-	1	-
OZAUKEE COUNTY	172	16	-	1	1	11	5	3	15	10	2	7	4	6	11	21	36	16	2	-	5	-
1 TO 19 EMPLOYEES	98	13	-	-	-	10	2	1	11	5	2	2	-	6	2	8	22	10	1	-	3	-
20 TO 99 EMPLOYEES	52	2	-	-	-	1	3	1	4	3	-	5	3	-	6	11	10	1	-	-	2	-
100 TO 249 EMPLOYEES	14	1	-	1	1	-	-	1	-	2	-	-	1	-	2	2	-	2	1	-	-	-
250 EMPLOYEES AND OVER	8	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	4	3	-	-	-	-
PEPIN COUNTY	11	5	-	-	-	3	-	-	1	-	-	-	-	-	1	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	2	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
PIERCE COUNTY	36	4	-	-	-	9	-	1	6	2	-	1	-	5	-	1	2	1	1	-	3	-
1 TO 19 EMPLOYEES	27	2	-	-	-	8	-	-	5	2	-	-	-	4	-	1	1	-	1	-	3	-
20 TO 99 EMPLOYEES	6	2	-	-	-	1	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
POLK COUNTY	68	11	-	1	4	11	1	-	9	2	-	5	-	5	-	4	8	4	1	-	-	2
1 TO 19 EMPLOYEES	46	6	-	1	1	11	1	-	6	2	-	-	-	5	-	1	7	3	-	-	-	2
20 TO 99 EMPLOYEES	18	5	-	-	3	-	-	-	3	-	-	3	-	-	-	2	1	-	1	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
PORTAGE COUNTY	66	14	-	-	-	10	7	4	9	2	-	1	-	6	-	3	4	-	1	-	5	-
1 TO 19 EMPLOYEES	38	7	-	-	-	8	3	1	5	2	-	-	-	4	-	1	3	-	-	-	4	-
20 TO 99 EMPLOYEES	17	4	-	-	-	1	1	-	3	-	-	1	-	2	-	2	1	-	1	-	1	-
100 TO 249 EMPLOYEES	8	2	-	-	-	1	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PRICE COUNTY	47	6	-	-	-	24	-	-	4	-	-	1	-	-	-	1	6	-	1	-	4	-
1 TO 19 EMPLOYEES	35	6	-	-	-	20	-	-	3	-	-	-	-	-	-	-	3	-	1	-	2	-
20 TO 99 EMPLOYEES	9	-	-	-	-	3	-	-	1	-	-	-	-	-	-	1	2	-	-	-	2	-
100 TO 249 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
RACINE COUNTY	405	17	-	1	5	17	6	5	36	6	1	21	2	15	22	67	120	31	1	8	15	9
1 TO 19 EMPLOYEES	258	10	-	1	2	16	4	3	27	3	1	10	1	12	13	39	86	14	-	3	11	2
20 TO 99 EMPLOYEES	90	4	-	-	2	1	1	1	5	1	-	7	1	2	4	21	25	6	1	3	3	2
100 TO 249 EMPLOYEES	35	1	-	-	-	-	1	1	3	-	-	4	-	-	2	5	5	9	-	2	1	1
250 EMPLOYEES AND OVER	22	2	-	-	1	-	-	-	1	2	-	-	-	1	3	2	4	2	-	-	-	4
RICHLAND COUNTY	31	12	-	-	1	7	-	-	3	-	-	-	-	1	-	-	2	2	1	-	1	1
1 TO 19 EMPLOYEES	22	10	-	-	-	4	-	-	2	-	-	-	-	1	-	-	2	1	-	-	1	1
20 TO 99 EMPLOYEES	7	2	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROCK COUNTY	186	16	1	4	1	2	5	5	29	7	2	11	3	9	1	18	38	8	8	3	7	8
1 TO 19 EMPLOYEES	124	7	1	1	1	1	3	4	26	3	2	5	1	7	-	12	28	5	4	2	6	5
20 TO 99 EMPLOYEES	32	5	-	1	-	1	2	1	2	4	-	3	-	2	-	3	3	1	1	1	-	2
100 TO 249 EMPLOYEES	14	3	-	-	-	-	-	-	1	-	-	2	-	-	-	2	4	1	1	-	-	-
250 EMPLOYEES AND OVER	16	1	-	2	-	-	-	-	-	-	-	1	2	-	1	1	3	1	2	-	1	1
RUSK COUNTY	40	5	-	1	2	13	2	1	3	-	-	1	-	-	-	2	5	1	1	-	3	-
1 TO 19 EMPLOYEES	26	3	-	-	-	10	-	-	3	-	-	-	-	-	-	2	5	-	1	-	2	-
20 TO 99 EMPLOYEES	10	2	-	-	2	1	2	-	-	-	-	1	-	-	-	-	-	1	-	-	1	-
100 TO 249 EMPLOYEES	3	-	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST. CROIX COUNTY	63	8	-	-	1	5	-	4	13	3	-	1	-	5	-	6	11	6	-	-	-	-
1 TO 19 EMPLOYEES	40	4	-	-	-	5	-	3	11	2	-	-	-	5	-	2	5	3	-	-	-	-
20 TO 99 EMPLOYEES	17	2	-	-	1	-	-	1	2	1	-	1	-	-	-	4	3	2	-	-	-	-
100 TO 249 EMPLOYEES	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
SAUK COUNTY	81	14	-	-	2	14	3	-	13	2	-	6	-	5	2	2	8	3	-	3	3	1
1 TO 19 EMPLOYEES	52	10	-	-	1	12	-	-	13	1	-	2	-	3	1	1	5	-	-	-	3	-
20 TO 99 EMPLOYEES	20	4	-	-	1	2	1	-	-	-	-	2	-	2	-	1	3	1	-	2	-	1
100 TO 249 EMPLOYEES	5	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	1	-	-	-	-
SAWYER COUNTY	42	-	-	-	-	25	-	2	3	-	-	-	2	3	-	2	3	1	-	1	-	-
1 TO 19 EMPLOYEES	38	-	-	-	-	21	-	2	3	-	-	-	2	3	-	2	3	1	-	1	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHAWANO COUNTY	76	29	-	1	2	22	1	1	5	1	-	2	1	2	-	1	4	1	1	-	1	1
1 TO 19 EMPLOYEES	54	23	-	1	-	14	1	-	4	1	-	1	-	2	-	1	3	1	1	-	1	-
20 TO 99 EMPLOYEES	18	6	-	-	1	6	-	-	1	-	-	1	1	-	-	-	1	-	-	-	-	1
100 TO 249 EMPLOYEES	4	-	-	-	1	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHEBOYGAN COUNTY	222	44	-	3	2	17	9	6	21	2	-	15	5	9	11	15	38	2	2	2	11	8
1 TO 19 EMPLOYEES	113	28	-	2	1	11	2	1	16	-	-	3	1	5	3	9	19	-	2	1	7	2
20 TO 99 EMPLOYEES	71	13	-	-	-	5	2	3	4	1	-	10	-	2	4	3	14	1	-	1	4	4
100 TO 249 EMPLOYEES	20	2	-	-	-	-	3	2	1	-	-	2	3	-	3	1	2	-	-	-	-	1
250 EMPLOYEES AND OVER	18	1	-	1	1	1	2	-	-	1	-	-	1	2	1	2	3	1	-	-	-	1
TAYLOR COUNTY	36	8	-	-	-	16	-	-	1	-	-	2	1	2	-	2	4	-	-	-	-	-
1 TO 19 EMPLOYEES	23	6	-	-	-	10	-	-	1	-	-	-	-	1	-	1	4	-	-	-	-	-
20 TO 99 EMPLOYEES	8	1	-	-	-	3	-	-	-	-	-	2	-	1	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	1	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TREMPEALEAU COUNTY	57	11	-	-	-	11	2	-	10	-	-	3	1	6	-	3	8	1	-	-	1	-
1 TO 19 EMPLOYEES	43	7	-	-	-	10	1	-	9	-	-	1	-	6	-	2	6	1	-	-	-	-
20 TO 99 EMPLOYEES	7	1	-	-	-	1	-	-	1	-	-	-	1	-	-	1	1	-	-	-	1	-
100 TO 249 EMPLOYEES	5	1	-	-	-	-	1	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VERNON COUNTY	47	23	-	-	3	8	-	-	5	1	-	-	-	2	-	2	-	-	1	-	-	2
1 TO 19 EMPLOYEES	37	21	-	-	2	6	-	-	4	-	-	-	-	2	-	1	-	-	-	-	-	1
20 TO 99 EMPLOYEES	9	2	-	-	1	2	-	-	-	1	-	-	-	-	-	1	-	-	1	-	-	1
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
VILAS COUNTY	35	2	-	-	-	15	2	-	5	-	-	-	-	3	-	1	1	-	-	5	1	-
1 TO 19 EMPLOYEES	28	1	-	-	-	13	2	-	4	-	-	-	-	3	-	1	1	-	-	3	-	-
20 TO 99 EMPLOYEES	5	1	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix 8)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
WALWORTH COUNTY	165	16	-	1	5	5	4	1	19	6	-	10	4	10	8	23	22	5	6	6	14	-
1 TO 19 EMPLOYEES	113	10	-	-	4	5	1	1	16	6	-	6	4	9	4	17	16	2	4	2	6	-
20 TO 99 EMPLOYEES	36	3	-	-	1	-	3	-	3	-	-	3	-	1	3	5	3	1	1	2	7	-
100 TO 249 EMPLOYEES	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	1	1	1	-
250 EMPLOYEES AND OVER	6	-	-	1	-	-	-	-	-	-	-	1	-	-	1	-	1	1	-	1	-	-
WASHBURN COUNTY	33	2	-	-	1	17	2	-	2	-	-	1	-	2	-	-	2	-	3	-	1	-
1 TO 19 EMPLOYEES	28	-	-	-	1	16	1	-	2	-	-	1	-	2	-	-	2	-	2	-	1	-
20 TO 99 EMPLOYEES	4	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WASHINGTON COUNTY	167	13	-	1	2	6	1	6	11	3	-	3	5	12	4	24	46	7	7	4	7	5
1 TO 19 EMPLOYEES	111	6	-	1	2	5	1	2	9	-	-	2	2	10	1	16	36	4	3	2	6	3
20 TO 99 EMPLOYEES	41	6	-	-	-	1	-	4	1	3	-	1	1	2	3	7	7	1	1	-	1	2
100 TO 249 EMPLOYEES	5	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	2	-	-	-
250 EMPLOYEES AND OVER	10	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	2	2	1	2	-	-
WAUKESHA COUNTY	728	29	-	3	8	22	15	7	84	19	9	39	2	41	26	102	227	42	4	15	21	13
1 TO 19 EMPLOYEES	452	13	-	3	6	18	11	3	53	13	6	16	1	25	11	63	155	25	3	8	16	3
20 TO 99 EMPLOYEES	213	11	-	-	2	4	4	2	25	6	2	17	-	15	9	32	60	7	1	4	5	7
100 TO 249 EMPLOYEES	35	3	-	-	-	-	-	1	4	-	1	5	1	1	1	4	7	3	-	2	-	2
250 EMPLOYEES AND OVER	28	2	-	-	-	-	-	1	2	-	-	1	-	-	5	3	5	7	-	1	-	1
WAUPACA COUNTY	93	25	-	-	1	13	2	3	12	1	-	2	-	5	1	4	10	2	11	-	1	-
1 TO 19 EMPLOYEES	59	20	-	-	-	8	-	-	9	-	-	2	-	4	-	2	7	1	5	-	1	-
20 TO 99 EMPLOYEES	25	4	-	-	-	2	2	2	3	1	-	-	-	1	-	2	3	-	5	-	-	-
100 TO 249 EMPLOYEES	6	-	-	-	1	3	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
WAUSHARA COUNTY	21	6	-	-	-	4	-	1	1	1	-	1	1	-	1	-	2	2	1	-	-	-
1 TO 19 EMPLOYEES	14	5	-	-	-	4	-	-	1	-	-	-	-	-	-	-	1	2	1	-	-	-
20 TO 99 EMPLOYEES	7	1	-	-	-	-	-	1	-	1	-	1	1	-	1	-	1	-	-	-	-	-
WINNEBAGO COUNTY	262	24	-	2	6	16	8	37	53	8	1	4	1	9	4	24	31	7	4	2	10	11
1 TO 19 EMPLOYEES	126	16	-	-	4	8	6	6	34	6	1	-	-	6	2	15	11	-	2	1	7	1
20 TO 99 EMPLOYEES	81	7	-	1	-	4	-	12	14	2	-	4	1	3	-	8	15	4	-	1	1	4
100 TO 249 EMPLOYEES	28	1	-	1	1	2	1	8	3	-	-	-	-	-	-	1	3	2	-	-	1	4
250 EMPLOYEES AND OVER	27	-	-	-	1	2	1	11	2	-	-	-	-	-	2	-	2	1	2	-	1	2
WOOD COUNTY	122	27	-	-	2	19	4	8	15	2	-	2	1	10	2	5	11	-	3	-	5	6
1 TO 19 EMPLOYEES	71	16	-	-	1	9	2	1	12	1	-	1	-	10	-	3	7	-	2	-	5	1
20 TO 99 EMPLOYEES	34	10	-	-	1	6	2	1	3	1	-	-	-	-	2	-	4	-	1	-	-	3
100 TO 249 EMPLOYEES	6	1	-	-	-	2	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	11	-	-	-	-	2	-	5	-	-	-	1	-	-	-	1	-	-	-	-	-	2

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

Wyoming

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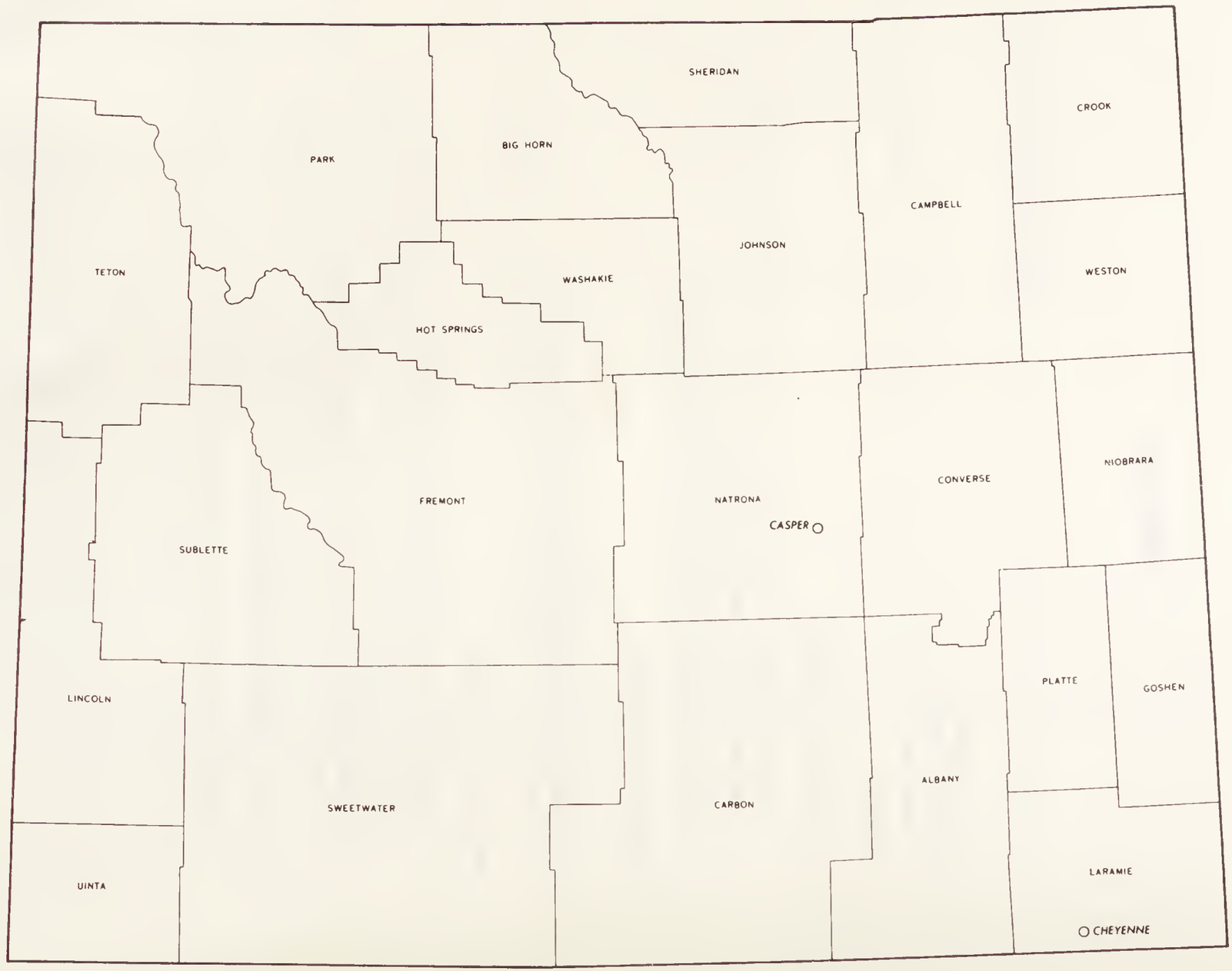
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WYOMING

LEGEND

○ Places of 25,000 to 50,000 inhabitants

SCALE

0 10 20 30 40 50 MILES

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 8.5 thousand persons were employed in Wyoming's manufacturing establishments. This figure represented an increase of 21 percent from the 1972 figure of 7.0 thousand workers.

The total value added by manufacture for the State amounted to $382 million in 1977, an increase of approximately 165 percent from the 1972 figure of $144 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were petroleum and coal products, lumber and wood products, food and kindred products, and stone, clay, and glass products. They accounted for approximately 58 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 60 percent of the State's employment.

The most important counties in the State ranked by employment were Natrona, Laramie, Park, and Albany. They accounted for approximately 54 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 54 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 7 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For explanation of terms, see appendix B)

Year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries[1]	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
1977	8.5	110.9	8.1	104.4	0.4	6.5
1972	7.0	56.9	6.7	53.9	0.3	3.0
1967	5.9	37.1	(D)	(D)	(D)	(D)
1963	6.8	38.0	(D)	(D)	(D)	(D)

(D) Withheld to avoid disclosing operations of individual companies.
[1]Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, county, or city totals in other tables.

Table 2a. Historical Statistics for the State: 1977 and Earlier Years

(For explanation of terms, see appendix B)

Year[1]	Establishments[2]		All employees[2]		Production workers							Comparative indexes and U.S. employment[2]			
														United States	
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials[3] (million dollars)	Value of shipments[3] (million dollars)	New capital expenditures (million dollars)	Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
1977 Census	505	102	8.5	110.9	6.2	12.1	73.9	381.9	918.5	1,288.0	36.2	.04	100	100	[4]19,505.8
1976 ASM	(NA)	(NA)	7.0	82.9	4.9	10.0	54.9	279.0	559.2	833.2	30.5	.04	82	96	18,753.0
1975 ASM	(NA)	(NA)	7.0	77.8	4.7	9.4	49.3	269.2	572.1	846.2	21.2	.04	82	94	18,302.2
1974 ASM	(NA)	(NA)	7.0	68.3	4.8	10.1	43.7	233.3	503.4	712.6	17.2	.04	82	102	19,844.8
1973 ASM	(NA)	(NA)	7.5	61.7	5.6	11.3	41.5	171.0	383.0	547.6	15.6	.04	88	102	19,897.9
1972 Census	377	78	7.0	56.9	5.1	10.1	39.2	143.9	312.3	451.0	23.4	.04	82	98	19,028.7
1971 ASM	(NA)	(NA)	6.4	51.1	4.8	9.8	37.8	119.4	244.2	362.6	6.3	.03	75	94	18,363.1
1970 ASM	(NA)	(NA)	6.0	45.7	4.4	8.5	33.8	104.3	223.9	331.5	4.7	.03	71	99	19,271.2
1969 ASM	(NA)	(NA)	5.9	41.5	4.0	8.2	26.1	98.7	222.8	323.7	9.0	.03	70	103	20,035.5
1968 ASM	(NA)	(NA)	6.3	41.6	4.3	8.7	26.4	106.1	211.4	310.0	8.9	.03	74	100	19,527.6
1967 Census	331	65	5.9	37.1	4.2	8.1	23.4	86.2	192.2	280.2	7.6	.03	70	99	19,323.2
1966 ASM	(NA)	(NA)	6.7	38.3	4.6	9.3	25.4	93.2	189.9	282.6	16.7	.04	79	98	19,024.5
1965 ASM	(NA)	(NA)	6.7	36.9	4.7	9.4	24.6	95.4	181.4	272.0	9.4	.04	79	92	18,010.2
1964 ASM	(NA)	(NA)	6.3	37.7	4.3	8.9	24.5	80.5	177.1	256.8	14.3	.04	74	89	17,268.5
1963 Census	342	69	6.8	38.0	4.6	9.1	24.7	81.7	(NA)	(NA)	14.0	.04	80	87	16,958.4

(NA) Not available.
[1]In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.
[2]Including central administrative offices and auxiliaries (for definition, see appendix B).
[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3- digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).
[4]This figure may be revised as a result of minor corrections uncovered in the course of processing final industry and area reports.

Table 2b. Selected Operating Ratios for the State: 1977 and Earlier Years

(For explanation of terms, see appendix B)

Year[1]	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of industry shipments (percent)	Cost of materials and payroll per dollar of industry shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
1977 Census	13,047	73	1,952	6.11	71	80	44,929	29	31.56
1976 ASM	11,843	70	2,041	5.49	67	77	39,857	30	27.90
1975 ASM	11,114	67	2,000	5.24	68	77	38,457	29	28.64
1974 ASM	9,757	69	2,104	4.33	71	80	33,329	29	23.10
1973 ASM	8,227	75	2,018	3.67	70	81	22,800	36	15.13
1972 Census	8,129	73	1,980	3.88	69	82	20,557	40	14.25
1971 ASM	7,984	75	2,042	3.86	67	81	18,656	43	12.18
1970 ASM	7,617	73	1,932	3.98	68	81	17,383	44	12.27
1969 ASM	7,034	68	2,050	3.18	69	82	16,729	42	12.04
1968 ASM	6,603	68	2,023	3.03	68	82	16,841	39	12.20
1967 Census	6,288	71	1,929	2.89	69	82	14,610	43	10.64
1966 ASM	5,716	69	2,022	2.73	67	81	13,910	41	10.02
1965 ASM	5,507	70	2,000	2.62	67	80	14,239	39	10.15
1964 ASM	5,984	68	2,070	2.75	69	84	12,778	47	9.04
1963 Census	5,588	68	1,978	2.71	(NA)	(NA)	12,015	47	8.98

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

(For explanation of terms, see appendix B)

Item	Unit of measure	1977	1972
All establiahments	number	505	377
With 1 to 19 employees	do	406	299
With 20 to 99 employees	do	83	63
With 100 or more employees	do	19	15
All employees, average for year	1,000	8.5	7.0
Payroll for year, all employees	mil. dollars	110.9	56.9
Production workers:			
Average for year	1,000	6.2	5.1
March	do	5.8	4.7
May	do	6.0	4.8
August	do	6.3	5.2
November	do	6.5	5.7
Hours	millions	12.1	10.1
January to March	do	2.9	2.5
April to June	do	2.9	2.4
July to September	do	3.1	2.5
October to December	do	3.2	2.7
Wages	mil. dollars	73.9	39.2
Cost of materials, etc	do	918.5	312.3
Materials, parts, containers, etc., conaumed	do	859.2	282.6
Resales	do	16.0	14.6
Fuels consumed	do	24.0	7.6
Purchased electric energy	do	5.6	2.9
Contract work	do	13.6	4.7
Value of shipments, including resales	do	1,288.0	451.0
Value of resales	do	17.3	16.1
Value added by manufscture	do	381.9	143.9
Manufacturers' inventories:			
Beginning of year	do	124.5	50.5
Finished products	do	58.5	27.5
Work in process	do	33.0	9.3
Materials, supplies, fuel, etc	do	33.0	13.7
End of year	do	142.8	58.1
Finished products	do	67.8	29.2
Work in process	do	36.1	12.9
Materials, aupplies, fuel, etc	do	38.9	16.0
Capital expenditures for plant and equipment	do	41.7	24.7
New capitsl expenditures	do	36.2	23.4
New buildings and structures	do	11.3	5.2
New machinery and equipment	do	24.9	18.2
Used capital expenditures	do	5.5	1.3

[1]Including central administrative offices and auxiliaries (for definition, see appendix B).

[2]Aggregate of cost of materials and value of shipmenta for industry groups (2- and 3-digit) snd for sll manufacturing industries includes extenaive duplication, aince products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see sppendix B. For description of annual survey of manufactures (ASM), aee appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable sssets:		
Total:		
Beginning of year	397.2	3
New capital expenditures	(28.9)	15
Used capital expenditures	4.7	11
Retirements	8.2	6
End of year	422.5	3
Buildings and other structures:		
Beginning of year	99.2	3
New capital expenditures	(4.8)	16
Used capital expenditurea	.1	10
Retirements	1.6	4
End of year	102.5	3
Machinery and equipment:		
Beginning of year	298.0	3
New capital expenditures	24.1	14
Automobiles, trucks, etc., for highway uae	.4	(NA)
Computers and peripheral data processing equip.	.1	(NA)
All other	13.6	(NA)
New machinery and equipment, n.s.k	10.0	(NA)
Used capital expenditures	4.6	11
Retirements	6.6	6
End of year	320.1	3

Item	Amount (million dollsrs)	Standsrd error of estimste (percent)
Rental payments:		
Totsl	4.1	6
Buildings and other structures	(.9)	17
Machinery and equipment	3.2	5
Depreciation charges during 1977:		
Total	22.4	5
Buildings and other structures	5.0	5
Machinery and equipment	17.4	5
Supplemental labor costs:		
Total	17.5	2
Legal costs	7.7	1
Voluntsry costs	9.8	5
Purchssed services:		
Cost of purchaaed services for the repair of--		
Buildings and other structures	2.0	4
Response coverage rstio (percent)	5.9	(X)
Machinery	(4.2)	(A)
Reaponse coverage ratio (percent)	5.8	(X)
Cost of purchaaed communication services	(.8)	45
Response coverage ratio (percent)	5.6	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

(A) Indicates standard errors of 100 percent or more. Figures in parentheses have standard errors of 15 percent or more.

(NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Counties, and Selected Cities: 1977 and 1972

(For explanation of terms, see appendix B)

Geographic area	1977											1972	
		All establishments[2]		All employees[2]		Production workers							
	E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (mil. dol.)	Number (1,000)	Hours (millions)	Wages (mil. dol.)	Value added by manufacture (mil. ddol)	Cost of materials[3] (mil. dol.)	Value of shipments[3] (mil. dol.)	New capital expenditures (mil. dol.)	All employees[2] (1,000)	Value added by manufacture (mil. dol.)
Wyoming		505	102	8.5	110.9	6.2	12.1	73.9	381.9	918.5	1,288.0	36.2	7.0	143.9
COUNTIES														
Albany	E1	32	11	.6	6.0	.5	.8	4.7	16.5	9.1	25.4	.6	.5	7.5
Big Horn	E1	18	2	.3	3.5	.2	.5	2.7	12.1	21.0	33.5	.6	.3	10.2
Campbell	E1	10	2	.1	1.2	.1	.2	.9	2.1	2.7	4.9	(D)	(Z)	.4
Carbon	E1	16	3	.2	1.9	.1	.2	1.3	3.2	4.7	7.8	.4	(D)	(D)
Converse	E1	8	-	.1	.6	(Z)	.1	.5	1.2	1.8	3.0	(D)	(Z)	.2
Crook	E1	9	2	.1	1.0	.1	.2	.8	2.1	2.7	4.8	.3	.1	1.8
Fremont	E1	52	6	.6	5.9	.5	.8	4.2	16.1	17.2	32.8	.8	.4	6.4
Goshen	E1	10	2	.3	3.2	.2	.5	2.6	6.3	15.2	20.9	(D)	(D)	(D)
Hot Springs	E1	9	1	.1	1.6	(Z)	(Z)	.2	.5	.6	1.1	(Z)	.1	.2
Johnson		10	1	.1	1.1	(Z)	.1	.3	2.4	2.4	4.8	(D)	.1	.7
Laramie		54	17	1.3	16.1	1.0	1.9	11.3	35.3	137.7	172.8	5.6	.9	14.6
Lincoln		26	4	.3	4.2	.3	.5	3.0	7.6	25.3	32.2	(D)	.3	4.5
Natrona		89	20	2.0	30.5	1.4	2.7	20.9	178.2	481.4	651.6	(D)	1.7	35.5
Niobrara		5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	.2
Park		26	5	.7	10.9	.3	.8	4.3	12.4	52.4	63.8	2.9	.7	8.4
Platte		11	1	.1	.8	.1	.1	.6	2.9	3.5	6.4	.3	(Z)	.3
Sheridan	E1	31	7	.3	3.8	.3	.5	2.7	4.2	13.8	17.9	1.0	.4	7.4
Sublette	E1	7	-	(Z)	.1	(Z)	(Z)	.1	.5	.2	.7	(D)	(Z)	.2
Sweetwater		18	5	.4	5.8	.2	.5	3.7	50.6	29.9	80.4	(D)	.2	5.6
Teton	E2	24	4	.3	2.9	.3	.5	2.2	5.1	4.7	9.7	.3	.2	1.9
Uinta		12	2	.1	1.6	.1	.3	1.4	10.5	4.8	15.3	.8	.1	.8
Washakie		15	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	4.4
Weston		13	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
CITIES WITH 450 EMPLOYEES OR MORE														
Casper		77	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cheyenne		44	12	.9	11.2	.7	1.3	7.5	18.0	124.8	142.5	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (Z) Less than 50 thousand dollars or hours; under 50 employees.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 to 99 percent; E0-100 percent.

[2]Including central administrative offices and auxiliaries (for definition, see appendix B).

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

(Industry groups and industries with 150 employees or more. For explanation of terms, see appendix B)

SIC code	Industry	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (mil. dol.)	Cost of materials[3] (mil. dol.)	Value of shipments[3] (mil. dol.)	New capital expenditures (mil. dol.)	All employees[2] (1,000)	Value added by manufacture (mil. dol.)
		E[1]	Total (no.)	With 20 employees or more (no.)	Number[2] (1,000)	Payroll (mil. dol.)	Number (1,000)	Hours (mil.)	Wages (mil. dol.)						
	All industries		505	102	8.5	110.9	6.2	12.1	73.9	381.9	918.5	1,288.0	36.2	7.0	143.9
20	Food and kindred products		68	14	1.2	13.5	.8	1.8	9.0	32.1	86.0	117.3	4.1	1.1	19.4
202	Dairy products		15	3	.2	1.9	.1	.2	.9	5.2	21.5	26.1	(D)	.3	3.8
206	Sugar, confectionery products	E1	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2063	Beet sugar	E1	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
208	Beverages		9	3	.2	2.5	.1	.2	.8	7.6	12.6	20.2	.9	(NA)	(NA)
2086	Bottled and canned soft drinks		9	3	.2	2.5	.1	.2	.8	7.6	12.6	20.2	.9	(NA)	(NA)
23	Apparel, other textile products	E1	13	4	.3	2.4	.3	.5	1.6	4.4	4.5	8.9	.2	(NA)	(NA)
232	Men's and boys' furnishings	E2	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c.	E2	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	E1	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2394	Canvas and related products	E1	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
24	Lumber and wood products	E1	112	18	1.3	13.8	1.2	2.2	11.5	36.6	37.4	73.4	(D)	1.0	14.5
2411	Logging camps, log contractors	E1	57	1	.2	2.2	.2	.3	1.9	5.3	4.9	10.1	.7	.2	3.2
242	Sawmills and planing mills	E1	35	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	11.4
2421	Sawmills, planing mills, general	E1	34	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	11.4
27	Printing and publishing	E1	90	15	.9	9.0	.5	.9	4.6	19.4	7.5	26.9	.7	.8	10.8
2711	Newspapers	E1	44	9	.6	6.0	.3	.5	2.6	14.1	3.7	17.8	(D)	.6	8.5
275	Commercial printing	E2	38	5	.2	2.5	.2	.3	1.7	4.0	3.2	7.2	.2	AA	(D)
28	Chemicals and allied products		12	4	.4	7.1	.3	.7	5.4	67.2	37.3	102.9	(D)	(NA)	(NA)
281	Industrial inorganic chemicals		4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2812	Alkalies and chlorine		1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
29	Petroleum and coal products		15	8	1.3	26.3	1.0	2.1	19.2	149.9	671.6	813.2	(D)	1.3	53.0
2911	Petroleum refining		10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	51.8
32	Stone, clay, glass products	E1	58	16	1.1	14.8	.9	1.8	11.3	38.0	38.1	75.9	(D)	.9	21.7
327	Concrete, gypsum, plaster products	E1	55	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3273	Ready-mixed concrete	E1	38	9	.7	8.8	.5	1.0	6.4	18.3	21.7	40.0	1.9	.4	6.6
3275	Cypsum products		2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
34	Fabricated metal products	E1	22	4	.3	2.9	.2	.3	1.8	6.5	9.7	15.9	(D)	(NA)	(NA)
35	Machinery, exc. electrical	E1	52	9	.8	9.1	.6	1.1	6.0	16.8	15.1	31.9	2.0	CC	(D)
353	Construction, related machinery	E1	11	2	.2	2.1	.1	.2	1.1	4.5	2.9	7.4	1.1	(NA)	(NA)
3533	Oil field machinery	E1	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E2	27	4	.4	4.7	.3	.7	3.6	8.8	7.2	16.2	.6	AA	(D)
3599	Machinery, exc. electrical, n.e.c.	E2	27	4	.4	4.7	.3	.7	3.6	8.8	7.2	16.2	.6	AA	(D)
	Central administrative offices and auxiliaries (see definition in appendix B)		8	2	.4	6.5	-	-	-	-	-	-	-	.3	-

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1--10 to 19 percent; E2--20 to 29 percent; E3--30 to 39 percent; E4--40 to 49 percent; E5--50 to 59 percent; E6--60 to 69 percent; E7--70 to 79 percent; E8--80 to 89 percent; E9--90 to 99 percent; E0--100 percent.

[2]Statistics for some industry groups and industries are withheld to avoid disclosing operations of individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA--150 to 249 employees; BB--250 to 499 employees; CC--500 to 999 employees; EE--1,000 to 2,499 employees; FF--2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

[3]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

(Not applicable)

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

(Counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B)

SIC code	County and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (mil. dol.)	Number (1,000)	Hours (mil.)	Wages (mil. dol.)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (mil. dol.)	All employees (1,000)	Value added by manufacture (mil. dol.)
	Albany County.....	E1	32	11	.6	6.0	.5	.8	4.7	16.5	9.1	25.4	.6	.5	7.5
	Fremont County.....	E1	52	6	.6	5.9	.5	.8	4.2	16.1	17.2	32.8	.8	.4	6.4
	Laramie County		54	17	1.3	16.1	1.0	1.9	11.3	35.3	137.7	172.8	5.6	.9	14.6
	Natrona County,.....		89	20	2.0	30.5	1.4	2.7	20.9	178.2	481.4	651.6	(D)	1.7	35.5
29	Petroleum and coal products.....		6	4	.8	17.2	.6	1.2	12.3	150.6	454.7	597.2	(D)	.7	19.7
	Park County.....		26	5	.7	10.9	.3	.8	4.3	12.4	52.4	63.8	2.9	.7	8.4

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

(D) Data withheld to avoid disclosing operations of individual companies.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1--10 to 19 percent; E2--20 to 29 percent; E3--30 to 39 percent; E4--40 to 49 percent; E5--50 to 59 percent; E6--60 to 69 percent; E7--70 to 79 percent; E8--80 to 89 percent; E9--90 to 99 percent; E0--100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

(Cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B)

SIC code	City and industry	1977												1972	
			All establishments		All employees		Production workers								
		E[1]	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (mil. dol.)	Number (1,000)	Hours (mil.)	Wages (mil. dol.)	Value added by manufacture (million dollars)	Cost of materials[2] (million dollars)	Value of shipments[2] (million dollars)	New capital expenditures (mil. dol.)	All employees (1,000)	Value added by manufacture (million dollars)
	Cheyenne.....		44	12	.9	11.2	.7	1.3	7.5	18.0	124.8	142.5	(D)	(D)	(D)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

(D) Withheld to avoid disclosing operations of individual companies.

[1]Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1--10 to 19 percent; E2--20 to 29 percent; E3--30 to 39 percent; E4--40 to 49 percent; E5--50 to 59 percent; E6--60 to 69 percent; E7--70 to 79 percent; E8--80 to 89 percent; E9--90 to 99 percent; E0--100 percent.

[2]Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
Wyoming	505	68	-	1	13	112	4	1	90	12	15	4	4	58	1	22	52	5	9	4	22	8
1 to 4 employees	269	39	-	-	6	67	3	1	57	7	3	2	3	20	-	8	19	3	5	3	17	6
5 to 9 employees	66	10	-	-	2	14	-	-	8	1	-	1	-	10	-	4	13	1	-	-	2	-
10 to 19 employees	68	5	-	-	1	13	-	-	10	-	4	-	1	12	1	6	11	-	2	-	2	-
20 to 49 employees	53	8	-	1	2	9	1	-	11	1	-	-	-	7	-	4	6	-	1	1	1	-
50 to 99 employees	30	2	-	-	1	8	-	-	3	1	2	1	-	9	-	-	2	-	1	-	-	-
100 to 249 employees	16	4	-	-	1	1	-	-	1	1	4	-	-	-	-	-	1	1	-	-	-	2
250 to 499 employees	3	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-
Albany County	32	4	-	-	1	14	1	-	5	-	-	-	-	3	-	-	1	1	1	-	1	-
1 to 19 employees	21	3	-	-	1	9	-	-	3	-	-	-	-	1	-	-	1	1	1	-	1	-
20 to 99 employees	11	1	-	-	-	5	1	-	2	-	-	-	-	2	-	-	-	-	-	-	-	-
Big Horn County	18	5	-	-	-	2	1	-	4	-	2	-	-	2	-	-	1	-	1	-	-	-
1 to 19 employees	16	4	-	-	-	2	1	-	4	-	2	-	-	1	-	-	1	-	1	-	-	-
20 to 99 employees	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 to 249 employees	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Campbell County	10	-	-	-	-	-	-	-	3	-	-	-	-	4	-	-	1	2	-	-	-	-
1 to 19 employees	8	-	-	-	-	-	-	-	2	-	-	-	-	3	-	-	1	2	-	-	-	-
20 to 99 employees	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
Carbon County	16	2	-	-	-	9	-	-	3	-	-	-	1	1	-	-	-	-	-	-	-	-
1 to 19 employees	13	2	-	-	-	8	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-
20 to 99 employees	3	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
Converse County	8	-	-	-	-	1	-	-	2	1	1	-	-	3	-	-	-	-	-	-	-	-
1 to 19 employees	8	-	-	-	-	1	-	-	2	1	1	-	-	3	-	-	-	-	-	-	-	-
Crook County	9	-	-	-	-	6	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
1 to 19 employees	7	-	-	-	-	4	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
20 to 99 employees	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fremont County	52	7	-	-	1	16	-	-	5	5	-	1	1	3	-	-	4	-	1	-	6	2
1 to 19 employees	46	7	-	-	1	14	-	-	4	4	-	1	1	3	-	-	3	-	1	-	5	2
20 to 99 employees	6	-	-	-	-	2	-	-	1	1	-	-	-	-	-	-	1	-	-	-	1	-
Goshen County	10	3	-	-	-	-	-	-	4	-	-	-	-	2	-	-	1	-	-	-	-	-
1 to 19 employees	8	2	-	-	-	-	-	-	4	-	-	-	-	1	-	-	1	-	-	-	-	-
20 to 99 employees	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 to 249 employees	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hot Springs County	9	1	-	-	-	3	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	1
1 to 19 employees	8	1	-	-	-	3	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
100 to 249 employees	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Johnson County	10	2	-	-	-	5	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-
1 to 19 employees	9	2	-	-	-	5	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
20 to 99 employees	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Laramie County	54	8	-	-	1	6	-	1	15	1	1	1	-	5	-	2	5	1	1	2	3	1
1 to 19 employees	37	5	-	-	-	4	-	1	11	-	-	1	-	3	-	2	4	-	1	1	3	1
20 to 99 employees	13	3	-	-	-	2	-	-	4	-	-	-	-	2	-	-	1	-	-	1	-	-
100 to 249 employees	4	-	-	-	1	-	-	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-
Lincoln County	26	2	-	-	1	12	-	-	3	-	2	-	-	4	-	-	1	-	1	-	-	-
1 to 19 employees	22	1	-	-	1	11	-	-	3	-	1	-	-	4	-	-	1	-	-	-	-	-
20 to 99 employees	3	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-
100 to 249 employees	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Natrona County	89	10	-	-	2	4	2	-	15	3	6	1	1	5	-	11	19	1	1	1	4	3
1 to 19 employees	69	10	-	-	2	4	2	-	12	3	2	1	1	2	-	8	13	1	-	1	4	3
20 to 99 employees	14	-	-	-	-	-	-	-	2	-	-	-	-	3	-	3	5	-	1	-	-	-
100 to 249 employees	4	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	1	-	-	-	-	-
250 employees and over	2	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class[1]	All establishments	Establishments in major groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
Niobrara County	5	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	2	-	-	-	-	-
1 to 19 employees	5	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	2	-	-	-	-	-
Park County	26	5	-	-	-	3	-	-	6	-	1	1	-	3	-	2	4	-	-	-	-	1
1 to 19 employees	21	4	-	-	-	3	-	-	6	-	-	-	-	2	-	2	4	-	-	-	-	-
20 to 99 employees	3	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
100 to 249 employees	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Platte County	11	1	-	-	-	1	-	-	1	-	-	-	-	4	-	-	1	-	2	-	1	-
1 to 19 employees	10	1	-	-	-	1	-	-	1	-	-	-	-	3	-	-	1	-	2	-	1	-
20 to 99 employees	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Sheridan County	31	5	-	1	1	6	-	-	5	-	-	-	-	4	-	2	4	-	1	1	1	-
1 to 19 employees	24	3	-	-	1	5	-	-	4	-	-	-	-	4	-	1	3	-	1	1	1	-
20 to 99 employees	7	2	-	1	-	1	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-
Sublette County	7	1	-	-	-	2	-	-	3	-	-	-	-	-	-	-	-	-	-	-	1	-
1 to 19 employees	7	1	-	-	-	2	-	-	3	-	-	-	-	-	-	-	-	-	-	-	1	-
Sweetwater County	18	2	-	-	-	-	-	-	4	2	-	-	-	3	1	1	3	-	-	-	2	-
1 to 19 employees	13	1	-	-	-	-	-	-	3	-	-	-	-	2	1	1	3	-	-	-	2	-
20 to 99 employees	4	1	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-
250 employees and over	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Teton County	24	2	-	-	6	2	-	-	4	-	-	-	1	2	-	2	2	-	-	-	3	-
1 to 19 employees	20	2	-	-	3	2	-	-	4	-	-	-	1	1	-	2	2	-	-	-	3	-
20 to 99 employees	4	-	-	-	3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Uinta County	12	-	-	-	-	10	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 to 19 employees	10	-	-	-	-	8	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 to 99 employees	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Washakie	15	7	-	-	-	2	-	-	1	-	-	-	-	4	-	-	1	-	-	-	-	-
1 to 19 employees	11	4	-	-	-	2	-	-	-	-	-	-	-	4	-	-	1	-	-	-	-	-
20 to 99 employees	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 to 249 employees	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weston County	13	-	-	-	-	8	-	-	1	-	1	-	-	2	-	1	-	-	-	-	-	-
1 to 19 employees	10	-	-	-	-	6	-	-	1	-	-	-	-	2	-	1	-	-	-	-	-	-
20 to 99 employees	3	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

[1]Only those counties and size classes that include data for manufacturing establishments are shown.

APPENDIX A. Standard Consolidated Statistical Areas and Standard Metropolitan Statistical Areas

(Titles and definitions of the SCSA's and the SMSA's in the United States established by the Department of Commerce, Office of Federal Statistical Policy and Standards, as of December 1977)

Standard Consolidated Statistical Areas

Boston-Lawrence-Lowell, Mass.-N.H.	Consists of Boston, Mass., SMSA; Lawrence-Haverhill, Mass.-N.H., SMSA; Lowell, Mass.-N.H., SMSA; and Brockton, Mass., SMSA
Chicago-Gary, Ill.-Ind.[1]	Consists of Chicago, Ill., SMSA, and Gary-Hammond-East Chicago, Ind., SMSA
Cincinnati-Hamilton, Ohio-Ky.-Ind.	Consists of Cincinnati, Ohio-Ky.-Ind., SMSA, and Hamilton-Middletown, Ohio, SMSA
Cleveland-Akron-Lorain, Ohio	Consists of Cleveland, Ohio, SMSA; Akron, Ohio, SMSA; and Lorain-Elyria, Ohio, SMSA
Detroit-Ann Arbor, Mich.	Consists of Detroit, Mich., SMSA, and Ann Arbor, Mich., SMSA
Houston-Galveston, Tex.	Consists of Houston, Tex., SMSA, and Galveston-Texas City, Tex., SMSA
Los Angeles-Long Beach-Anaheim, Calif	Consists of Los Angeles-Long Beach, Calif., SMSA; Anaheim-Santa Ana-Garden Grove, Calif., SMSA; Riverside-San Bernardino-Ontario, Calif., SMSA; and Oxnard-Simi Valley-Ventura, Calif., SMSA
Miami-Fort Lauderdale, Fla	Consists of Miami, Fla., SMSA, and Fort Lauderdale-Hollywood, Fla., SMSA
Milwaukee-Racine, Wis.	Consists of Milwaukee, Wis., SMSA, and Racine, Wis., SMSA
New York-Newark-Jersey City, N.Y.-N.J.-Conn.[2]	Consists of New York, N.Y.-N.J., SMSA; Nassau-Suffolk, N.Y., SMSA, Newark, N.J., SMSA; Jersey City, N.J., SMSA; New Brunswick-Perth Amboy-Sayreville, N.J., SMSA; Paterson-Clifton-Passaic, N.J., SMSA; Long Branch-Asbury Park, N.J., SMSA; Stamford, Conn., SMSA; and Norwalk, Conn., SMSA
Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md.	Consists of Philadelphia, Pa.-N.J., SMSA; Wilmington, Del.-N.J.-Md., SMSA, and Trenton, N.J., SMSA
San Francisco-Oakland-San Jose, Calif.	Consists of San Francisco-Oakland, Calif., SMSA; San Jose, Calif., SMSA, and Vallejo-Fairfield-Napa, Calif., SMSA
Seattle-Tacoma, Wash.	Consists of Seattle-Everett, Wash., SMSA, and Tacoma, Wash., SMSA

Standard Metropolitan Statistical Areas

Abilene, Tex.	Consists of Callahan, Jones, and Taylor Counties, Tex.
Akron, Ohio	Consists of Portage and Summit Counties, Ohio
Albany, Ga.	Consists of Dougherty and Lee Counties, Ga.
Albany-Schenectady-Troy, N.Y.	Consists of Albany, Montgomery, Rensselaer, Saratoga, and Schenectady Counties, N.Y.
Albuquerque, N. Mex.	Consists of Bernalillo and Sandoval Counties, N. Mex.
Alexandria, La.	Consists of Grant and Rapides Parishes, La.
Allentown-Bethlehem-Easton, Pa.-N.J.	Consists of Carbon, Lehigh, and Northampton Counties, Pa.; and Warren County, N.J.
Altoona, Pa.	Coextensive with Blair County, Pa.
Amarillo, Tex.	Consists of Potter and Randall Counties, Tex.
Anaheim-Santa Ana-Garden Grove, Calif.	Coextensive with Orange County, Calif.
Anchorage, Alaska	Coextensive with Anchorage Division, Alaska
Anderson, Ind.	Coextensive with Madison County, Ind.
Ann Arbor, Mich.	Coextensive with Washtenaw County, Mich.
Anniston, Ala.[3]	Coextensive with Calhoun County, Ala.
Appleton-Oshkosh, Wis.	Consists of Calumet, Outagamie, and Winnebago Counties, Wis.
Asheville, N.C.	Consists of Buncombe and Madison Counties, N.C.
Atlanta, Ga.	Consists of Butts, Cherokee, Clayton, Cobb, De Kalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Newton, Paulding, Rockdale, and Walton Counties, Ga.

See footnotes at end of appendix.

SMSA'S—Con.

Atlantic City, N.J.	Coextensive with Atlantic County, N.J.
Augusta, Ga.-S.C.	Consists of Columbia and Richmond Counties, Ga., and Aiken County, S.C.
Austin, Tex.[4]	Consists of Hays, Travis, and Williamson Counties, Tex.
Bakersfield, Calif.	Coextensive with Kern County, Calif.
Baltimore, Md.	Consists of Baltimore[5] city and Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties, Md.
Baton Rouge, La.	Consists of Ascension, East Baton Rouge, Livingston, and West Baton Rouge Parishes, La.
Battle Creek, Mich.	Consists of Barry and Calhoun Counties, Mich.
Bay City, Mich.	Coextensive with Bay County, Mich.
Beaumont-Port Arthur-Orange, Tex.	Consists of Hardin, Jefferson, and Orange Counties, Tex.
Billings, Mont.	Coextensive with Yellowstone County, Mont.
Biloxi-Gulfport, Miss.	Consists of Hancock, Harrison, and Stone Counties, Miss.
Binghamton, N.Y.-Pa.	Consists of Broome and Tioga Counties, N.Y., and Susquehanna County, Pa.
Birmingham, Ala.	Consists of Jefferson, St. Clair, Shelby, and Walker Counties, Ala.
Bloomington, Ind.[3]	Coextensive with Monroe County, Ind.
Bloomington-Normal, Ill.	Coextensive with McLean County, Ill.
Boise City, Idaho	Coextensive with Ada County, Idaho
Boston, Mass.	Consists of Beverly, Lynn, Peabody, and Salem cities, and Boxford, Danvers, Hamilton, Lynnfield, Manchester, Marblehead, Middleton, Nahant, Saugus, Swampscott, Topsfield, and Wenham towns in Essex County; Cambridge, Everett, Malden, Medford, Melrose, Newton, Somerville, Waltham, and Woburn cities, and Acton, Arlington, Ashland, Bedford, Belmont, Boxborough, Burlington, Carlisle, Concord, Framingham, Holliston, Lexington, Lincoln, Natick, North Reading, Reading, Sherborn, Stoneham, Sudbury, Wakefield, Watertown, Wayland, Weston Wilmington, and Winchester towns in Middlesex County; Quincy city, and Bellingham, Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Foxborough, Franklin, Holbrook, Medfield, Medway, Millis, Milton, Needham, Norfolk, Norwood, Randolph, Sharon, Stoughton, Walpole, Wellesley, Westwood, Weymouth, and Wrentham towns in Norfolk County; Abington, Duxbury, Hanover, Hanson, Hingham, Hull, Kingston, Marshfield, Norwell, Pembroke, Rockland, Scituate towns in Plymouth County; and Boston, Chelsea, and Revere cities, and Winthrop town in Suffolk County, Mass.
Bradenton, Fla.[3]	Coextensive with Manatee County, Fla.
Bridgeport, Conn.	Consists of Bridgeport and Shelton cities, and Easton, Fairfield, Monroe, Stratford, and Trumbull towns in Fairfield County; and Derby and Milford cities in New Haven County, Conn.
Bristol, Conn.	Consists of Bristol city and Burlington town in Hartford County, and Plymouth town in Litchfield County, Conn.
Brockton, Mass.	Consists of Easton town in Bristol County; Avon town in Norfolk County; and Brockton city, and Bridgewater, East Bridgewater, Halifax, West Bridgewater, and Whitman towns in Plymouth County, Mass.
Brownsville-Harlingen-San Benito, Tex.	Coextensive with Cameron County, Tex.
Bryan-College Station, Tex.	Coextensive with Brazos County, Tex.
Buffalo, N.Y.	Consists of Erie and Niagara Counties, N.Y.
Burlington, N.C.	Coextensive with Alamance County, N.C.
Canton, Ohio	Consists of Carroll and Stark Counties, Ohio
Cedar Rapids, Iowa	Coextensive with Linn County, Iowa
Champaign-Urbana-Rantoul, Ill.	Coextensive with Champaign County, Ill.
Charleston-North Charleston, S.C.[6]	Consists of Berkeley, Charleston, and Dorchester Counties, S.C.
Charleston, W. Va.	Consists of Kanawha and Putnam Counties, W. Va.
Charlotte-Gastonia, N.C.	Consists of Gaston, Mecklenburg, and Union Counties, N.C.

See footnotes at end of appendix.

SMSA'S—Con.

Chattanooga, Tenn.-Ga.	Consists of Hamilton, Marion, and Sequatchie Counties, Tenn.; and Catoosa, Dade, and Walker Counties, Ga.
Chicago, Ill.	Consists of Cook, Du Page, Kane, Lake, McHenry, and Will Counties, Ill.
Cincinnati, Ohio-Ky.-Ind.	Consists of Clermont, Hamilton, and Warren Counties, Ohio; Boone, Campbell, and Kenton Counties, Ky.; and Dearborn County, Ind.
Clarksville-Hopkinsville, Tenn.-Ky.[3]	Consists of Montgomery County, Tenn. and Christian County, Ky.
Cleveland, Ohio	Consists of Cuyahoga, Geauga, Lake, and Medina Counties, Ohio
Colorado Springs, Colo.	Consists of El Paso and Teller Counties, Colo.
Columbia, Mo.	Coextensive with Boone County, Mo.
Columbia, S.C.	Consists of Lexington and Richland Counties, S.C.
Columbus, Ga.-Ala.	Consists of Chattahoochee County and Columbus[5] (consolidated government), Ga., and Russell County, Ala.
Columbus, Ohio	Consists of Delaware, Fairfield, Franklin, Madison, and Pickaway Counties, Ohio
Corpus Christi, Tex.	Consists of Nueces and San Patricio Counties, Tex.
Dallas-Fort Worth, Tex.	Consists of Collin, Dallas, Denton, Ellis, Hood, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise Counties, Tex.
Danbury, Conn.	Consists of Danbury city and Bethel, Brookfield, New Fairfield, Newtown, and Redding towns in Fairfield County; and New Milford town in Litchfield County, Conn.
Davenport-Rock Island-Moline, Iowa-Ill.	Consists of Scott County, Iowa and Henry and Rock Island Counties, Ill.
Dayton, Ohio	Consists of Greene, Miami, Montgomery, and Preble Counties, Ohio
Daytona Beach, Fla.	Coextensive with Volusia County, Fla.
Decatur, Ill.	Coextensive with Macon County, Ill.
Denver-Boulder, Colo.	Consists of Adams, Arapahoe, Boulder, Denver, Douglas, Gilpin, and Jefferson Counties, Colo.
Des Moines, Iowa	Consists of Polk and Warren Counties, Iowa
Detroit, Mich.	Consists of Lapeer, Livingston, Macomb, Oakland, St. Clair, and Wayne Counties, Mich.
Dubuque, Iowa	Coextensive with Dubuque County, Iowa
Duluth-Superior, Minn.-Wis.	Consists of St. Louis County, Minn. and Douglas County, Wis.
Eau Claire, Wis.[3]	Consists of Chippewa and Eau Claire Counties, Wis.
El Paso, Tex.	Coextensive with El Paso County, Tex.
Elmira, N.Y.	Coextensive with Chemung County, N.Y.
Erie, Pa.	Coextensive with Erie County, Pa.
Eugene-Springfield, Oreg.	Coextensive with Lane County, Oreg.
Evansville, Ind.-Ky.	Consists of Gibson, Posey, Vanderburgh, and Warrick Counties, Ind. and Henderson County, Ky.
Fall River, Mass.-R.I.	Consists of Fall River city and Dighton, Somerset, Swansea, and Westport towns in Bristol County, Mass.; and Little Compton, Portsmouth, and Tiverton towns in Newport County, R.I.
Fargo-Moorhead, N. Dak.-Minn.	Consists of Cass County, N. Dak. and Clay County, Minn.
Fayetteville, N.C.	Coextensive with Cumberland County, N.C.
Fayetteville-Springdale, Ark.	Consists of Benton and Washington Counties, Ark.
Fitchburg-Leominster, Mass.	Consists of Shirley and Townsend towns in Middlesex County, and Fitchburg and Leominster cities and Lunenburg and Westminster towns in Worcester County, Mass.
Flint, Mich.	Consists of Genesee and Shiawassee Counties, Mich.
Florence, Ala.	Consists of Colbert and Lauderdale Counties, Ala.
Fort Collins, Colo.[3]	Coextensive with Larimer County, Colo.
Fort Lauderdale-Hollywood, Fla.	Coextensive with Broward County, Fla.
Fort Myers, Fla.	Coextensive with Lee County, Fla.
Fort Smith, Ark.-Okla.	Consists of Crawford and Sebastian Counties, Ark. and Le Flore and Sequoyah Counties, Okla.

See footnotes at end of appendix.

SMSA'S—Con.

Fort Wayne, Ind.	Consists of Adams, Allen, De Kalb, and Wells Counties, Ind.
Fresno, Calif.	Coextensive with Fresno County, Calif.
Gadsden, Ala.	Coextensive with Etowah County, Ala.
Gainesville, Fla.	Coextensive with Alachua County, Fla.
Galveston-Texas City, Tex.	Coextensive with Galveston County, Tex.
Gary-Hammond-East Chicago, Ind.	Consists of Lake and Porter Counties, Ind.
Grand Forks, N. Dak.-Minn.[3]	Consists of Grand Forks County, N. Dak. and Polk County, Minn.
Grand Rapids, Mich.	Consists of Kent and Ottawa Counties, Mich.
Great Falls, Mont.	Coextensive with Cascade County, Mont.
Greeley, Colo.[3]	Coextensive with Weld County, Colo.
Green Bay, Wis.	Coextensive with Brown County, Wis.
Greensboro—Winston-Salem—High Point, N.C.	Consists of Davidson, Forsyth, Guilford, Randolph, Stokes, and Yadkin Counties, N.C.
Greenville-Spartanburg, S.C.	Consists of Greenville, Pickens, and Spartanburg Counties, S.C.
Hamilton-Middletown, Ohio	Coextensive with Butler County, Ohio
Harrisburg, Pa.	Consists of Cumberland, Dauphin, and Perry Counties, Pa.
Hartford, Conn.	Consists of Hartford city and Avon, Bloomfield, Canton, East Granby, East Hartford, East Windsor, Enfield, Farmington, Glastonbury, Granby, Manchester, Marlborough, Newington, Rocky Hill, Simsbury, South Windsor, Suffield, West Hartford, Wethersfield, Windsor, and Windsor Locks towns in Hartford County; New Hartford town in Litchfield County; Cromwell, East Hampton, and Portland towns in Middlesex County; Colchester town in New London County; and Andover, Bolton, Columbia, Coventry, Ellington, Hebron, Stafford, Tolland, Vernon, and Willington towns in Tolland County, Conn.
Honolulu, Hawaii	Coextensive with Honolulu County, Hawaii
Houston, Tex.	Consists of Brazoria, Fort Bend, Harris, Liberty, Montgomery, and Waller Counties, Tex.
Huntington-Ashland, W. Va.-Ky.-Ohio	Consists of Cabell and Wayne Counties, W. Va.; Boyd and Greenup Counties, Ky.; and Lawrence County, Ohio
Huntsville, Ala.	Consists of Limestone, Madison, and Marshall Counties, Ala.
Indianapolis, Ind.	Consists of Boone, Hamilton, Hancock, Hendricks, Johnson, Marion, Morgan, and Shelby Counties, Ind.
Jackson, Mich.	Coextensive with Jackson County, Mich.
Jackson, Miss.	Consists of Hinds and Rankin Counties, Miss.
Jacksonville, Fla.	Consists of Baker, Clay, Duval, Nassau, and St. Johns Counties, Fla.
Jersey City, N.J.	Coextensive with Hudson County, N.J.
Johnson City-Kingsport-Bristol, Tenn.-Va.[7]	Consists of Carter, Hawkins, Sullivan, Unicoi, and Washington Counties, Tenn., and Bristol[5] city and Scott and Washington Counties, Va.
Johnstown, Pa.	Consists of Cambria and Somerset Counties, Pa.
Kalamazoo-Portage, Mich.	Consists of Kalamazoo and Van Buren Counties, Mich.
Kankakee, Ill.[3]	Coextensive with Kankakee County, Ill.
Kansas City, Mo.-Kans.	Consists of Cass, Clay, Jackson, Platte, and Ray Counties, Mo., and Johnson and Wyandotte Counties, Kans.
Kenosha, Wis.	Coextensive with Kenosha County, Wis.
Killeen-Temple, Tex.	Consists of Bell and Coryell Counties, Tex.
Knoxville, Tenn.	Consists of Anderson, Blount, Knox, and Union Counties, Tenn.
Kokomo, Ind.[3]	Consists of Howard and Tipton Counties, Ind.
La Crosse, Wis.	Coextensive with La Crosse County, Wis.
Lafayette, La.	Coextensive with Lafayette Parish, La.
Lafayette-West Lafayette, Ind.	Coextensive with Tippecanoe County, Ind.
Lake Charles, La.	Coextensive with Calcasieu Parish, La.

See footnotes at end of appendix.

SMSA'S—Con.

Lakeland-Winter Haven, Fla.	Coextensive with Polk County, Fla.
Lancaster, Pa.	Coextensive with Lancaster County, Pa.
Lansing-East Lansing, Mich.	Consists of Clinton, Eaton, Ingham, and Ionia Counties, Mich.
Laredo, Tex.	Coextensive with Webb County, Tex.
Las Vegas, Nev.	Coextensive with Clark County, Nev.
Lawrence, Kans.[5]	Coextensive with Douglas County, Kans.
Lawrence-Haverhill, Mass.-N.H.	Consists of Haverhill and Lawrence cities and Amesbury, Andover, Georgetown, Groveland, Merrimac, Methuen, North Andover, Salisbury, and West Newbury towns in Essex County, Mass. and Atkinson, Hampstead, Kingston, Newton, Plaistow, Salem, and Windham towns in Rockingham County, N.H.
Lawton, Okla.	Coextensive with Comanche County, Okla.
Lewiston-Auburn, Maine	Consists of Auburn and Lewiston cities and Lisbon town in Androscoggin County, Maine
Lexington-Fayette, Ky.[8]	Consists of Bourbon, Clark, Fayette, Jessamine, Scott, and Woodford Counties, Ky.
Lima, Ohio	Consists of Allen, Auglaize, Putnam, and Van Wert Counties, Ohio
Lincoln, Nebr.	Coextensive with Lancaster County, Nebr.
Little Rock-North Little Rock, Ark.	Consists of Pulaski and Saline Counties, Ark.
Long Branch-Asbury Park, N.J.	Coextensive with Monmouth County, N.J.
Longview, Tex.[3]	Consists of Gregg and Harrison Counties, Tex.
Lorain-Elyria, Ohio	Coextensive with Lorain County, Ohio
Los Angeles-Long Beach, Calif.	Coextensive with Los Angeles County, Calif.
Louisville, Ky-Ind.	Consists of Bullitt, Jefferson, and Oldham Counties, Ky. and Clark and Floyd Counties, Ind.
Lowell, Mass.-N.H.	Consists of Lowell city and Billerica, Chelmsford, Dracut, Tewksbury, Tyngsborough, and Westford towns in Middlesex County, Mass.; and Pelham town in Hillsborough County, N.H.
Lubbock, Tex.	Coextensive with Lubbock County, Tex.
Lynchburg, Va.	Consists of Lynchburg[5] city and Amherst, Appomattox, and Campbell Counties, Va.
Macon, Ga.	Consists of Bibb, Houston, Jones, and Twiggs Counties, Ga.
Madison, Wis.	Coextensive with Dane County, Wis.
Manchester, N.H.	Consists of Manchester city and Bedford and Goffstown towns in Hillsborough County; Allenstown, Hooksett, and Pembroke towns in Merrimack County; and Derry and Londonderry towns in Rockingham County, N.H.
Mansfield, Ohio	Coextensive with Richland County, Ohio
McAllen-Pharr-Edinburg, Tex.	Coextensive with Hidalgo County, Tex.
Melbourne-Titusville-Cocoa, Fla.	Coextensive with Brevard County, Fla.
Memphis, Tenn.-Ark.-Miss.	Consists of Shelby and Tipton Counties, Tenn.; Crittenden County, Ark.; and De Soto County, Miss.
Meriden, Conn.	Coextensive with Meriden city in New Haven County, Conn.
Miami, Fla.	Coextensive with Dade County, Fla.
Midland, Tex.	Coextensive with Midland County, Tex.
Milwaukee, Wis.	Consists of Milwaukee, Ozaukee, Washington, and Waukesha Counties, Wis.
Minneapolis-St. Paul, Minn.-Wis.	Consists of Anoka, Carver, Chisago, Dakota, Hennepin, Ramsey, Scott, Washington, and Wright Counties, Minn. and St. Croix County, Wis.
Mobile, Ala.	Consists of Baldwin and Mobile Counties, Ala.
Modesto, Calif.	Coextensive with Stanislaus County, Calif.
Monroe, La.	Coextensive with Ouachita Parish, La.
Montgomery, Ala.	Consists of Autauga, Elmore, and Montgomery Counties, Ala.
Muncie, Ind.	Coextensive with Delaware County, Ind.
Muskegon-North Shores-Muskegon Heights, Mich.[9]	Consists of Muskegon and Oceana Counties, Mich.

See footnotes at end of appendix.

SMSA'S—Con.

Nashua, N.H.	Consists of Nashua city and Amherst, Hudson, Merrimack, and Milford towns in Hillsborough County, N.H.
Nashville-Davidson, Tenn.	Consists of Cheatham, Davidson, Dickson, Robertson, Rutherford, Sumner, Williamson, and Wilson Counties, Tenn.
Nassau-Suffolk, N.Y.	Consists of Nassau and Suffolk Counties, N.Y.
New Bedford, Mass.	Consists of New Bedford city and Acushnet, Dartmouth, Fairhaven, and Freetown towns in Bristol County; and Lakeville, Marion, and Mattapoisett towns in Plymouth County, Mass.
New Britain, Conn.	Consists of New Britain city and Berlin, Plainville, and Southington towns in Hartford County, Conn.
New Brunswick-Perth Amboy-Sayreville, N.J.	Coextensive with Middlesex County, N.J.
New Haven-West Haven, Conn.[10]	Consists of Clinton town in Middlesex County; and New Haven and West Haven cities and Bethany, Branford, East Haven, Guilford, Hamden, Madison, North Branford, North Haven, Orange, Wallingford, and Woodbridge towns in New Haven County, Conn.
New London-Norwich, Conn.-R.I.	Consists of Old Saybrook town in Middlesex County; New London and Norwich cities and Bozrah, East Lyme, Griswold, Groton, Ledyard, Lisbon, Montville, Old Lyme, Preston, Sprague, Stonington, and Waterford towns in New London County, Conn.; and Hopkinton and Westerly towns in Washington County, R.I.
New Orleans, La.	Consists of Jefferson, Orleans, St. Bernard, and St. Tammany Parishes, La.
New York, N.Y.-N.J.	Consists of Bronx, Kings, New York, Putnam, Queens, Richmond, Rockland, and Westchester Counties, N.Y. and Bergen County, N.J.
Newark, N.J.	Consists of Essex, Morris, Somerset, and Union Counties, N.J.
Newport News-Hampton, Va.[11]	Consists of Hampton,[S] Newport News,[S] Poquoson,[S] and Williamsburg[S] cities and Gloucester, James City, and York Counties, Va.
Norfolk-Virginia Beach-Portsmouth, Va.-N.C.[12]	Consists of Chesapeake,[S] Norfolk,[S] Portsmouth,[S] Suffolk,[S] and Virginia Beach[S] cities, Va. and Currituck County, N.C.
Northeast Pennsylvania	Consists of Lackawanna, Luzerne, and Monroe Counties, Pa.
Norwalk, Conn.	Consists of Norwalk city and Weston, Westport, and Wilton towns in Fairfield County, Conn.
Odessa, Tex.	Coextensive with Ector County, Tex.
Oklahoma City, Okla.	Consists of Canadian, Cleveland, McClain, Oklahoma, and Pottawatomie Counties, Okla.
Omaha, Nebr.-Iowa	Consists of Douglas and Sarpy Counties, Nebr. and Pottawattamie County, Iowa
Orlando, Fla.	Consists of Orange, Osceola, and Seminole Counties, Fla.
Owensboro, Ky.	Coextensive with Daviess County, Ky.
Oxnard-Simi Valley-Ventura, Calif.	Coextensive with Ventura County, Calif.
Panama City, Fla.[3]	Coextensive with Bay County, Fla.
Parkersburg-Marietta, W. Va.-Ohio	Consists of Wirt and Wood Counties, W. Va. and Washington County, Ohio
Pascagoula-Moss Point, Miss.[3]	Coextensive with Jackson County, Miss.
Paterson-Clifton-Passaic, N.J.	Coextensive with Passaic County, N.J.
Pensacola, Fla.	Consists of Escambia and Santa Rosa Counties, Fla.
Peoria, Ill.	Consists of Peoria, Tazewell, and Woodford Counties, Ill.
Petersburg-Colonial Heights-Hopewell, Va.	Consists of Colonial Heights,[S] Hopewell,[S] and Petersburg[S] cities and Dinwiddie and Prince George Counties, Va.
Philadelphia, Pa.-N.J.	Consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa.; and Burlington, Camden, and Gloucester Counties, N.J.
Phoenix, Ariz.	Coextensive with Maricopa County, Ariz.
Pine Bluff, Ark.	Coextensive with Jefferson County, Ark.
Pittsburgh, Pa.	Consists of Allegheny, Beaver, Washington, and Westmoreland Counties, Pa.
Pittsfield, Mass.	Consists of Pittsfield city and Adams, Cheshire, Dalton, Lanesborough, Lee, Lenox, and Stockbridge towns in Berkshire County, Mass.

See footnotes at end of appendix.

SMSA'S—Con.

Portland, Maine	Consists of Portland, South Portland, and Westbrook cities and Cape Elizabeth, Cumberland, Falmouth, Freeport, Gorham, Scarborough, Windham, and Yarmouth towns in Cumberland County; and Saco city and Old Orchard Beach town in York County, Maine
Portland, Oreg.-Wash.	Consists of Clackamas, Multnomah, and Washington Counties, Oreg. and Clark County, Wash.
Poughkeepsie, N.Y.	Coextensive with Dutchess County, N.Y.
Providence-Warwick-Pawtucket, R.I.-Mass.	Consists of Barrington, Bristol, and Warren towns in Bristol County; Warwick city and Coventry, East Greenwich, and West Warwick towns in Kent County; Jamestown town in Newport County; Central Falls, Cranston, East Providence, Pawtucket, Providence, and Woonsocket cities and Burrillville, Cumberland, Johnston, Lincoln, North Providence, North Smithfield, Scituate, and Smithfield towns in Providence County; and Narragansett, North Kingstown, and South Kingstown towns in Washington County, R.I.; Attleboro city and North Attleborough, Norton, Rehoboth, and Seekonk towns in Bristol County; Plainville town in Norfolk County; and Blackstone and Millville towns in Worcester County, Mass.
Provo-Orem, Utah	Coextensive with Utah County, Utah
Pueblo, Colo.	Coextensive with Pueblo County, Colo.
Racine, Wis.	Coextensive with Racine County, Wis.
Raleigh-Durham, N.C.	Consists of Durham, Orange, and Wake Counties, N.C.
Reading, Pa.	Coextensive with Berks County, Pa.
Reno, Nev.	Coextensive with Washoe County, Nev.
Richland-Kennewick, Wash.	Consists of Benton and Franklin Counties, Wash.
Richmond, Va.[1 3]	Consists of Richmond[5] city and Charles City, Chesterfield, Goochland, Hanover, Henrico, New Kent, and Powhatan Counties, Va.
Riverside-San Bernardino-Ontario, Calif.	Consists of Riverside and San Bernardino Counties, Calif.
Roanoke, Va.	Consists of Roanoke[5] and Salem[5] cities and Botetourt, Craig, and Roanoke Counties, Va.
Rochester, Minn.	Coextensive with Olmsted County, Minn.
Rochester, N.Y.	Consists of Livingston, Monroe, Ontario, Orleans, and Wayne Counties, N.Y.
Rockford, Ill.	Consists of Boone and Winnebago Counties, Ill.
Sacramento, Calif.	Consists of Placer, Sacramento, and Yolo Counties, Calif.
Saginaw, Mich.	Coextensive with Saginaw County, Mich.
St. Cloud, Minn.	Consists of Benton, Sherburne, and Stearns Counties, Minn.
St. Joseph, Mo.	Consists of Andrew and Buchanan Counties, Mo.
St. Louis, Mo.-Ill.	Consists of St. Louis[5] city and Franklin, Jefferson, St. Charles, and St. Louis Counties, Mo.; and Clinton, Madison, Monroe, and St. Clair Counties, Ill.
Salem, Oreg.	Consists of Marion and Polk Counties, Oreg.
Salinas-Seaside-Monterey, Calif.	Coextensive with Monterey County, Calif.
Salt Lake City-Ogden, Utah	Consists of Davis, Salt Lake, Tooele, and Weber Counties, Utah
San Angelo, Tex.	Coextensive with Tom Green County, Tex.
San Antonio, Tex.	Consists of Bexar, Comal, and Guadalupe Counties, Tex.
San Diego, Calif.	Coextensive with San Diego County, Calif.
San Francisco-Oakland, Calif.	Consists of Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties, Calif.
San Jose, Calif.	Coextensive with Santa Clara County, Calif.
Santa Barbara-Santa Maria-Lompoc, Calif.	Coextensive with Santa Barbara County, Calif.
Santa Cruz, Calif.	Coextensive with Santa Cruz County, Calif
Santa Rosa, Calif.	Coextensive with Sonoma County, Calif.
Sarasota, Fla.	Coextensive with Sarasota County, Fla.
Savannah, Ga.	Consists of Bryan, Chatham, and Effingham Counties, Ga.
Seattle-Everett, Wash.	Consists of King and Snohomish Counties, Wash.

See footnotes at end of appendix.

SMSA'S—Con.

Sherman-Denison, Tex.	Coextensive with Grayson County, Tex.
Shreveport, La.	Consists of Bossier, Caddo, and Webster Parishes, La.
Sioux City, Iowa-Nebr.	Consists of Woodbury County, Iowa and Dakota County, Nebr.
Sioux Falls, S. Dak.	Coextensive with Minnehaha County, S. Dak.
South Bend, Ind.	Consists of Marshall and St. Joseph Counties, Ind.
Spokane, Wash.	Coextensive with Spokane County, Wash.
Springfield, Ill.	Consists of Menard and Sangamon Counties, Ill.
Springfield, Mo.	Consists of Christian and Greene Counties, Mo.
Springfield, Ohio	Consists of Champaign and Clark Counties, Ohio
Springfield-Chicopee-Holyoke, Mass.-Conn.	Consists of Chicopee, Holyoke, Springfield, and Westfield cities and Agawam, East Longmeadow, Hampden, Longmeadow, Ludlow, Monson, Palmer, Southwick, West Springfield, and Wilbraham towns in Hampden County; Northampton city and Belchertown, Easthampton, Granby, Hadley, Hatfield, Southampton, and South Hadley towns in Hampshire County; Warren town in Worcester County, Mass.; and Somers town in Tolland County, Conn.
Stamford, Conn.	Consists of Stamford city and Darien, Greenwich, and New Canaan towns in Fairfield County, Conn.
Steubenville-Weirton, Ohio-W. Va.	Consists of Jefferson County, Ohio and Brooke and Hancock Counties, W. Va.
Stockton, Calif.	Coextensive with San Joaquin County, Calif.
Syracuse, N.Y.	Consists of Madison, Onondaga, and Oswego Counties, N.Y.
Tacoma, Wash.	Coextensive with Pierce County, Wash.
Tallahassee, Fla.	Consists of Leon and Wakulla Counties, Fla.
Tampa-St. Petersburg, Fla.	Consists of Hillsborough, Pasco, and Pinellas Counties, Fla.
Terre Haute, Ind.	Consists of Clay, Sullivan, Vermillion, and Vigo Counties, Ind.
Texarkana, Tex.-Texarkana, Ark.	Consists of Bowie County, Tex. and Little River and Miller Counties, Ark.
Toledo, Ohio-Mich.	Consists of Fulton, Lucas, Ottawa, and Wood Counties, Ohio and Monroe County, Mich.
Topeka, Kans.	Consists of Jefferson, Osage, and Shawnee Counties, Kans.
Trenton, N.J.	Coextensive with Mercer County, N.J.
Tucson, Ariz.	Coextensive with Pima County, Ariz.
Tulsa, Okla.	Consists of Creek, Mayes, Osage, Rogers, Tulsa, and Wagoner Counties, Okla.
Tuscaloosa, Ala.	Coextensive with Tuscaloosa County, Ala.
Tyler, Tex.	Coextensive with Smith County, Tex.
Utica-Rome, N.Y.	Consists of Herkimer and Oneida Counties, N.Y.
Vallejo-Fairfield-Napa, Calif.	Consists of Napa and Solano Counties, Calif.
Vineland-Millville-Bridgeton, N.J.	Coextensive with Cumberland County, N.J.
Waco, Tex.	Coextensive with McLennan County, Tex.
Washington, D.C.-Md.-Va.[14]	Consists of District of Columbia; Charles, Montgomery, and Prince Georges Counties, Md; and Alexandria,[5] Fairfax,[5] Falls Church,[5] Manassas,[5] and Manassas Park[5] cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Va.
Waterbury, Conn.	Consists of Thomaston, Watertown, and Woodbury towns in Litchfield County; and Waterbury city, Naugatuck borough, and Beacon Falls, Cheshire, Middlebury, Prospect, Southbury, and Wolcott towns in New Haven County, Conn.
Waterloo-Cedar Falls, Iowa	Coextensive with Black Hawk County, Iowa
West Palm Beach-Boca Raton, Fla.	Coextensive with Palm Beach County, Fla.
Wheeling, W. Va.-Ohio	Consists of Marshall and Ohio Counties, W. Va. and Belmont County, Ohio
Wichita, Kans.	Consists of Butler and Sedgwick Counties, Kans.
Wichita Falls, Tex.	Consists of Clay and Wichita Counties, Tex.
Williamsport, Pa.	Coextensive with Lycoming County, Pa.
Wilmington, Del.-N.J.-Md.	Consists of New Castle County, Del.; Salem County, N.J.; and Cecil County, Md.
Wilmington, N.C.	Consists of Brunswick and New Hanover Counties, N.C.

See footnotes at end of appendix.

SMSA'S—Con.

Worcester, Mass.	Consists of Worcester city and Auburn, Berlin, Boylston, Brookfield, Charlton, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, Northbridge, North Brookfield, Oxford, Paxton, Shrewsbury, Spencer, Sterling, Sutton, Upton, Uxbridge, Webster, Westborough, and West Boylston towns in Worcester County, Mass.
Yakima, Wash.	Coextensive with Yakima County, Wash.
York, Pa.	Consists of Adams and York Counties, Pa.
Youngstown-Warren, Ohio	Consists of Mahoning and Trumbull Counties, Ohio

[1] Retitled from Chicago-Northeastern Indiana SCA since 1972 Economic Censuses; but no boundary change.
[2] Includes New York-Northeastern New Jersey SCA and Long Branch-Asbury Park, N.J., Stamford, Conn., and Norwalk, Conn., SMSA's added since 1972 Economic Censuses.
[3] Newly designated SMSA since 1972 Economic Censuses.
[4] Williamson County, Tex. added since 1972 Economic Censuses.
[5] Independent of any county and considered a county equivalent.
[6] Retitled from Charleston, S.C., SMSA since 1972 Economic Censuses.
[7] Retitled from Kingsport-Bristol, Tenn.-Va., SMSA and Carter, Unicorn, and Washington Counties, Tenn., added since 1972 Economic Censuses.
[8] Retitled from Lexington, Ky., SMSA since 1972 Economic Censuses.
[9] Retitled from Muskegon-Muskegon Heights, Mich., SMSA since 1972 Economic Censuses.
[10] Killingworth town in Middlesex County was deleted since 1972 Economic Censuses.
[11] Poquoson city was added since 1972 Economic Censuses.
[12] Nansemond city was deleted since 1972 Economic Censuses.
[13] New Kent County added since 1972 Economic Censuses.
[14] Manassas and Manassas Park cities added since 1972 Economic Censuses.

Abbreviations Used for State Names
(Alaska, Hawaii, Idaho, Iowa, Maine, Ohio and Utah are not abbreviated)

Ala.	Alabama	Ind.	Indiana	N.C.	North Carolina	R.I.	Rhode Island
Ariz.	Arizona	Kans.	Kansas	N. Dak.	North Dakota	S.C.	South Carolina
Ark.	Arkansas	Ky.	Kentucky	Nebr.	Nebraska	S. Dak.	South Dakota
Calif.	California	La.	Louisiana	Nev.	Nevada	Tenn.	Tennessee
Colo.	Colorado	Mass.	Massachusetts	N.H.	New Hampshire	Tex.	Texas
Conn.	Connecticut	Md.	Maryland	N.J.	New Jersey	Va.	Virginia
D.C.	District of Columbia	Mich.	Michigan	N. Mex.	New Mexico	Vt.	Vermont
Del.	Delaware	Minn.	Minnesota	N.Y.	New York	Wash.	Washington
Fla.	Florida	Miss.	Mississippi	Okla.	Oklahoma	Wis.	Wisconsin
Ga.	Georgia	Mo.	Missouri	Oreg.	Oregon	W. Va.	West Virginia
Ill.	Illinois	Mont.	Montana	Pa.	Pennsylvania	Wyo.	Wyoming

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APPENDIX B. Explanation of Terms

This appendix is in two sections. Section 1 includes items for which all establishments that were mailed census of manufactures forms were requested to supply information. Section 2 covers supplementary items for which only establishments included in the annual survey of manufactures (ASM) sample were requested to supply information. Results of the supplementary ASM inquiries are included in this report. (See the Introduction, Manufacturing Universe and Census Report Forms, for a detailed explanation of the use of the ASM sample in a census of manufactures year and a description of the various report forms.)

SECTION 1. ITEMS COLLECTED ON ALL CENSUS OF MANUFACTURES REPORT FORMS

Employment and related items—The regular report forms requested separate information on production workers as of a payroll period for each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees—This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period ending nearest the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the mid-month payroll periods of March, May, August, and November.

Production workers—This item includes workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Supervisory employees above the working foreman level are excluded from this category.

All other employees—This item covers nonproduction personnel of the manufacturing establishment, including those engaged in factory supervision above the working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical. Also included are employees on the payroll of the manufacturing establishment who are engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force.

In addition to reports sent to operating manufacturing establishments, information on employment during the payroll period which included March 12 and annual payrolls was also requested of administrative offices or auxiliary units (e.g., warehouses and research and development laboratories) of multiestablishment companies. However, these figures are not included in the totals for individual industries shown in this report. They are included in the Summary and Geographic Area reports and in the final bound volumes as a separate category.

Administrative office and auxiliary unit employees—As noted in the Introduction, companies were asked to file a special report form for any administrative office that was at a different location than the establishments managed or served, or at the same location as one of the establishments but not operated as an integral part of the establishment. Employees in **administrative offices** are concerned with the general management of multiestablishment companies, i.e., with the general supervision and control of two units or more, such as manufacturing plants, mines, sales branches, or stores. The functions of these employees may include (1) program planning, including sales research and coordination of purchasing, production, and distribution; (2) company purchasing, including general contracts and purchasing methods; (3) company financial policy and accounting, tax accounting, company sales and profits reports, and personnel accounting; (4) general engineering, including design of product machinery and equipment, and direction of engineering effort conducted at the individual operation locations; (5) direction of company personnel matters; and (6) legal and patent matters. **Auxiliaries** are separate storage facilities, garages, repair shops, purchasing offices, sales promotion offices, research and development organizations, etc., serving the plants or central management of the company.

The employment and payrolls of the administrative offices and auxiliaries serving manufacturing establishments are included in all tables at the "all industries" level. In tables where industry detail is shown, the data for these units appear as a separate industry group.

Payrolls—This item includes the gross earnings paid in the calendar year 1977 to all employees on the payroll of operating

manufacturing establishments. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations, but excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Federal Statistical Policy and Standards. It should be noted that this definition does not include employers' Social Security contributions or other nonpayroll labor costs such as employees' pension plans, group insurance premiums, and workers' compensation.

The ASM provides estimates of employers' supplemental labor costs, both those required by Federal and State laws and those incurred voluntarily or as part of collective bargaining agreements. (Supplemental labor costs are explained later in this appendix.)

As in the case of employment figures, the payrolls of separate administrative offices and auxiliary units of multi-establishment companies are included in all tables at the "all industries" level. In tables where industry detail is shown, the data for these units appear as a separate industry group.

Production worker hours—This item covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave when the employee was not at the plant.

Cost of materials—This item refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, regardless of whether what was consumed was purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (1) all raw materials, semifinished goods, parts, components, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year; (2) electric energy purchased; (3) fuels consumed for heat, power, or generating electricity; (4) work done by others on materials or parts furnished by manufacturing establishments (contract work); and (5) products bought and resold in the same condition. (See discussion of duplication of data.)

Value of shipments—This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sale of products bought and resold without further processing. Included are all items made by or for the establishments from materials owned by it whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, i.e., including not only the direct costs of production but also a reasonable proportion of "all other costs" (including company overhead) and profit. (See discussion of duplication of data.)

Duplication in cost of materials and value of shipments—The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication, since the products of some industries are used as materials by others. With some important exceptions, such as for motor vehicles and parts, this duplication is not significant at the 4-digit industry level. However, it is significant at the 2-digit and 3-digit industry group level because these totals often include industries which represent successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the "Food" group and the addition of pulp mills to paper mills in the "Paper and Allied Products" group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication—the value of finished manufactures—tends to approximate two-thirds of the total value of products reported in the census of manufactures.

Value added by manufacture—This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is then adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process inventories between the beginning and end of the year.

"Value added" avoids the duplication in the figure for value of shipments which results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

New and used capital expenditures—For establishments in operation and establishments under construction but not yet in operation, manufacturers were asked to report their new expenditures for (1) permanent additions and major alterations to manufacturing establishments, and (2) machinery and equip-

ment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

The totals for new expenditures exclude that portion of expenditures leased from nonmanufacturing concerns, new facilities owned by the Federal Government but operated under contract by private companies, and plant and equipment furnished to the manufacturer by communities and nonprofit organizations. Also excluded are expenditures for used plant and equipment (although reported in the census), expenditures for land, and cost of maintenance and repairs charged as current operating expenses.

Manufacturers were also requested to report the value of all used buildings and equipment purchased during the year at the purchase price. For any equipment or structure transferred to the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. Furthermore, if the establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported under used capital expenditures.

Total expenditures for used plant and equipment is a universe figure; i.e., it is collected on all census forms. However, the breakdown of this figure between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form and is subject to sampling error (see table 3b, chapters 2 and 4).

End-of-year inventories—Respondents were asked to report their 1977 and 1976 end-of-year inventories at approximate current costs, if feasible; otherwise, at book values. Since different methods of inventory valuation are used (last-in-first-out (LIFO), first-in-first-out (FIFO), etc.), the definition of the value of inventories aggregate for all establishments in an industry is not precise. The change in inventory between years is of considerably greater significance.

In using inventory data by stage of fabrication for "all industries" and at the 2-digit industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and "all manufacturing" which are aggregates of figures reported by establishments in specified industries.

SECTION 2. ITEMS COLLECTED ONLY ON ASM REPORT FORM

Cost of purchased services—ASM establishments were requested to provide information on the cost of purchased services for the repair of buildings and other structures, the repair of machinery and communication services. Included in the cost of purchased services for the repair of building and machinery are payments made for all maintenance and repair work on buildings and equipment such as painting, roof repairs, replacing parts, and overhauling equipment. Such payments made to other establishments of the same company and for repair and maintenance of any leased property are also included. Extensive repairs or reconstruction that were capitalized are considered capital expenditures for used buildings and machinery and are, therefore, excluded from this item. Repair and maintenance costs provided by an owner as part of a rental contract and incurred directly by an establishment in using its own work force are also excluded.

The response coverage ratio for each of the three types of purchased services listed above is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those ASM establishments that reported the specific inquiry to the weighted total employment for all ASM establishments classified in the industry (see table 3c, chapters 2 and 4).

Rental payments—This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets, and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these company-owned assets were to be reported as assets of the establishment at the end of the year.

If there were assets at an establishment rented from another company, and the rents were paid centrally by the head office of the establishment, the company was instructed to report these rental payments as if they were paid directly by the establishment.

Supplemental labor costs—Supplemental labor costs are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees. While the excluded items do benefit employees, and all or part of their cost is generally similar to the items covered in the annual survey labor costs statistics, accounting records do not generally provide reliable figures on net employee benefits of these types.

Beginning and end-of-year depreciable assets—The data encompass all fixed depreciable assets on the books of establishments at the beginning and at the end of the year. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are nondepreciable capital assets, including inventories and intangible assets such as patent rights and royalties. Also excluded are land and depletable assets such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year, rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress. In addition, respondents were requested to make certain that assets at the beginning of the year plus new and used capital expenditures, less retirements, equaled assets at the end of the year.

New and used capital expenditures—The data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used capital expenditures are collected on all census forms. However, the breakdown between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. (See further explanation on capital expenditures in section 1.)

Breakdown of new capital expenditures for machinery and equipment—ASM establishments were requested to separate their capital expenditures for new machinery and equipment into (1) automobiles, trucks, etc., for highway use; (2) computers and peripheral data processing equipment; and (3) all other.

The category "automobiles, trucks, etc., for highway use" is intended to measure expenditures for vehicles designed for highway use which were acquired through a purchase of lease-purchase agreement. Vehicles normally operating off public highways—vehicles specifically designed to transport materials, property, or equipment on mining, construction, logging, and petroleum development projects—are excluded from this item.

The "not specified by kind" or n.s.k. item for expenditures for new machinery and buildings shown in table 3b represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories. This means that for most industries the specific categories are understated.

Retirements—Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during 1977. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent was also requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.

Depreciation charges—This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.

APPENDIX C. Industry Descriptions

This appendix contains descriptions of the 450 4-digit industries for which data were compiled and published in the 1977 Census of Manufactures. With two exceptions, the industries are the same as those described in the 1972 edition of the Standard Industrial Classification (SIC) Manual. SIC Industry 3572, Typewriters, was combined with Industry 3579, Office Machines, N.E.C., in the census tabulations and SIC Industry 3716, Motor Homes Produced on Purchased Chassis, was added

The industry titles and descriptions, in general, agree with those appearing in the SIC Manual, but the descriptions have been expanded, in some instances, to include references to additional products classified in other industries.

20 FOOD AND KINDRED PRODUCTS

This major group includes establishments manufacturing or processing foods and beverages for human consumption, and certain related products, such as manufactured ice, chewing gum, vegetable and animal fats and oils, and prepared feeds for animals and fowls.

201 MEAT PRODUCTS

2011 **Meatpacking Plants.**—Establishments primarily engaged in the slaughtering, for their own account or on a contract basis for the trade, of cattle, hogs, sheep, lambs, and calves for meat to be sold or to be used on the same premises in canning and curing, and in making sausage, lard and other products. Establishments primarily engaged in killing, dressing, and packing poultry, rabbits, and other small game are classified in industry 2016; and those primarily engaged in killing and processing horses and other nonfood animals are classified in industry 2047. Establishments primarily engaged in manufacturing sausages and meat specialties from purchased meats are classified in industry 2013; and establishments primarily engaged in canning meat for baby food are classified in industry 2032.

2013 **Sausages and Other Prepared Meat Products.**—Establishments primarily engaged in manufacturing sausages, cured meats, smoked meats, canned meats, frozen meats, natural sausage casings, and other prepared meats and meat specialties from purchased carcasses and other materials. Sausage kitchens and other prepared meat plants operated by packing houses as separate establishments are also included in this industry. Establishments primarily engaged in canning or otherwise processing poultry, rabbits, and other small game are classified in industries 2016 and 2017. Establishments primarily engaged in the cutting up and resale of purchased fresh carcasses are classified in trade industries. Establishments primarily engaged in canning meat for baby food are classified in industry 2032.

2016 **Poultry Dressing Plants.**—Establishments primarily engaged in slaughtering and dressing poultry for their own account or on a contract basis for the trade for meat to be sold or to be used on the same premises in further processing, including cooking, smoking, raw-boning, canning, freezing, and dehydrating. This industry also includes the killing, dressing, and packing of rabbits and other small game. Establishments primarily engaged in processing purchased carcasses are classified in industry 2017.

2017 **Poultry and Egg Processing.**—Establishments primarily engaged in the preparation of processed poultry products from purchased carcasses, including cooking, smoking, raw-boning, canning, freezing, and dehydrating, for their own account or on a contract basis for the trade; or in the drying, freezing, and breaking of eggs. The cleaning, oil treating, packing, and grading of eggs are classified in industry 5144. Establishments primarily engaged in the cutting up and resale of purchased fresh carcasses are classified in the trade industries.

202 DAIRY PRODUCTS

This group includes establishments primarily engaged in (1) manufacturing creamery butter, natural cheese, condensed and evaporated milk, ice cream and frozen desserts, and special dairy products such as processed cheese and malted milk and (2) processing (pasteurizing, homogenizing, vitaminizing, bottling) fluid milk and cream for wholesale or retail distribution. Independently operated milk receiving stations primarily engaged in the assembly and reshipment of bulk milk for the use of manufacturing or processing plants are classified in industry 5143.

2021 **Creamery Butter.**—Establishments primarily engaged in manufacturing creamery butter.

2022 **Cheese, Natural and Processed.**—Establishments primarily engaged in manufacturing all types of natural cheese (except cottage cheese—industry 2026), processed cheese, cheese foods, and cheese spreads.

2023 **Condensed and Evaporated Milk.**—Establishments primarily engaged in manufacturing condensed and evaporated milk and related products, including ice-cream mix and ice-milk mix made for sale as such, and dry milk products. Also included in the manufacture of nondairy-base cream substitutes and dietary supplements.

2024 **Ice Cream and Frozen Desserts.**—Establishments primarily engaged in manufacturing ice cream and other frozen desserts.

2026 **Fluid Milk.**—Establishments primarily engaged in processing (pasteurizing, homogenizing, vitaminizing, bottling) and distributing fluid milk and cream, and related products, including cottage cheese.

203 CANNED AND PRESERVED FRUITS AND VEGETABLES

2032 **Canned Specialties.**—Establishments primarily engaged in canning specialty products, such as baby foods, "native foods," health foods, and soups except seafood. Establishments primarily engaged in canning seafoods other than frozen are classified in industry 2091, frozen seafoods in industry 2092, and those primarily engaged in quick freezing canned specialties in industry 2038.

2033 **Canned Fruits, Vegetables, Preserves, Jams, and Jellies.**—Establishments primarily engaged in canning fruits and vegetables, and fruit and vegetable juices; and manufacturing catsup and similar tomato sauces, preserves, jams, and jellies. Establishments primarily engaged in canning seafoods (except frozen) are classified in industry 2091; and canned specialties, baby foods, and soups (except seafood) in industry 2032.

2034 **Dried and Dehydrated Fruits, Vegetables, and Soup Mixes.**—Establishments primarily engaged in sun drying or artificially dehydrating fruits and vegetables, or in manufacturing packaged soup mixes from dehydrated ingredients. Establishments primarily engaged in the grading and marketing of farm dried fruits, such as prunes and raisins, are classified in industry 5149.

2035 **Pickled Fruits and Vegetables, Vegetable Sauces and Seasonings, and Salad Dressings.**—Establishments primarily engaged in pickling and brining fruits and vegetables, and in manufacturing salad dressings, vegetable relishes, sauces, and seasonings. Establishments primarily engaged in manufacturing catsup and similar tomato sauces are classified in industry 2033, and those packing purchased pickles and olives in trade industries.

2037 **Frozen Fruits, Fruit Juices and Vegetables.**—Establishments primarily engaged in freezing and coldpacking (freezing) fruits, fruit juices, and vegetables.

2038 **Frozen Specialties.**—Establishments primarily engaged in freezing and coldpacking (freezing) food specialties such as frozen dinners and frozen pizza.

204 GRAIN MILL PRODUCTS

2041 **Flour and Other Grain Mill Products.**—Establishments primarily engaged in milling flour or meal from grain, except rice. The products of flour mills may be sold plain or in the form of prepared mixes or doughs for specific purposes. Establishments primarily engaged in manufacturing prepared flour mixes or doughs from purchased ingredients are classified in industry 2045, and rice milling in industry 2044.

2043 **Cereal Breakfast Foods.**—Establishments primarily engaged in manufacturing cereal breakfast foods and related preparations.

2044 **Rice Milling.**—Establishments primarily engaged in cleaning and polishing rice, and in manufacturing rice flour or meal. Other important products of this industry include brown rice, milled rice (including polished rice), rice polish, and rice bran.

2045 **Blended and Prepared Flour.**—Establishments primarily engaged in the preparation of blended flours and flour mixes or doughs from purchased flour. Establishments primarily engaged in milling flour from grain are classified in industry 2041.

2046 **Wet Corn Milling.**—Establishments primarily engaged in milling corn or sorghum grain (milo) by the wet process, and producing starch, sirup, oil, sugar, and byproducts such as gluten feed and meal. Establishments primarily engaged in manufacturing starch from other vegetable sources (potato, wheat, etc.) are also included. Establishments primarily engaged in manufacturing table sirups from corn sirup and other ingredients and those manufacturing starch-base dessert powders are classified in industry 2099.

2047 **Dog, Cat and Other Pet Food.**—Establishments primarily engaged in manufacturing dog, cat, and other pet food from cereal, meat, and other ingredients. These preparations may be canned, frozen, or dry. This industry also includes establishments slaughtering animals for pet food. Establishments primarily engaged in manufacturing feed for animals, other than pets, are classified in industry 2048.

2048 **Prepared Feeds and Feed Ingredients for Animals and Fowls, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing prepared feeds and feed ingredients and adjuncts, for animals and fowls, not elsewhere classified. This industry in-

cludes poultry and livestock feed and feed ingredients, such as alfalfa meal, feed supplements, feed concentrates, and feed premixes. Establishments primarily engaged in manufacturing pet foods are classified in industry 2047.

205 BAKERY PRODUCTS

2051 **Bread and Other Bakery Products, Except Cookies and Crackers.**—Establishments primarily engaged in manufacturing bread, cakes, and other "perishable" bakery products. Establishments manufacturing bakery products for sale primarily for home service delivery, or through one or more non-baking retail outlets, are included in this industry. Establishments primarily engaged in producing "dry" bakery products, such as biscuits, crackers, and cookies, are classified in industry 2052. Establishments producing bakery products primarily for direct sale on the premises to household consumers are classified in Retail Trade, industry 5462.

2052 **Cookies and Crackers.**—Establishments primarily engaged in manufacturing cookies, crackers, pretzels, and similar "dry" bakery products. Establishments primarily engaged in producing "perishable" bakery products are classified in industry 2051.

206 SUGAR AND CONFECTIONERY PRODUCTS

2061 **Cane Sugar, Except Refining Only.**—Establishments primarily engaged in manufacturing raw sugar, sirup, or finished (granulated or clarified) cane sugar from sugarcane. Establishments primarily engaged in refining sugar from purchased raw cane sirup or sugar sirups are classified in industry 2062.

2062 **Cane Sugar Refining.**—Establishments primarily engaged in refining purchased raw cane sugar and sugar sirup.

2063 **Beet Sugar.**—Establishments primarily engaged in manufacturing sugar from sugar beets.

2065 **Candy and Other Confectionery Products.**—Establishments primarily engaged in manufacturing candy, including chocolate candy, salted nuts, other confections, and related products. Establishments primarily engaged in manufacturing solid chocolate bars are classified in industry 2066 and chewing gum in industry 2067. Establishments primarily engaged in manufacturing confectionery for direct sale on the premises are classified in industry 5441, and those primarily engaged in shelling and roasting nuts are classified in industry 5145.

2066 **Chocolate and Cocoa Products.**—Establishments primarily engaged in shelling, roasting, and grinding cacao beans for the purpose of making chocolate liquor, from which cocoa powder and cocoa butter are derived, and in the further manufacture of solid chocolate bars and chocolate coatings. Establishments primarily engaged in manufacturing products, except candy, from purchased chocolate and cocoa are classified in industry 2099, and chocolate candy in industry 2065.

2067 **Chewing Gum.**—Establishments primarily engaged in manufacturing chewing gum or chewing gum base.

207 FATS AND OILS

2074 **Cottonseed Oil Mills.**—Establishments primarily engaged in manufacturing cottonseed oil and byproduct cake, meal, and linters. Establishments primarily engaged in refining cottonseed oil into edible cooking oils are classified in industry 2079.

2075 **Soybean Oil Mills.**—Establishments primarily engaged in manufacturing soybean oil and byproduct cake and meal. Establishments primarily engaged in refining soybean oil into edible cooking oils are classified in industry 2079.

2076 **Vegetable Oil Mills, Except Corn, Cottonseed, and Soybean.**—Establishments primarily engaged in manufacturing vegetable oils and byproduct cake and meal, except corn, cottonseed, and soybean. Establishments primarily engaged in manufacturing corn oil and its byproducts are classified in industry 2046, those which are refining vegetable oils into edible cooking oils are classified in industry 2079, and those refining these oils for medicinal purposes in industry 2833.

2077 **Animal and Marine Fats and Oils.**—Establishments primarily engaged in manufacturing animal oils, including fish oil and other marine animal oils and fish and animal meal; and those rendering inedible grease and tallow from animal fat, bones, and meat scraps. Establishments primarily engaged in manufacturing lard and edible tallow and stearin are classified in group 201; those refining marine animal oils for medicinal purposes in industry 2833; and those manufacturing fatty acids in industry 2899.

2079 **Shortening, Table Oils, Margarine and Other Edible Fats and Oils, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing shortening, table oils, margarine, and other edible fats and oils, not elsewhere classified, by further processing of purchased animal and vegetable oils. Establishments primarily engaged in producing corn oil are classified in industry 2046.

208 BEVERAGES

2082 **Malt Beverages.**—Establishments primarily engaged in manufacturing all kinds of malt beverages. Establishments primarily engaged in bottling purchased malt beverages are classified in industry 5181.

2083 **Malt.**—Establishments primarily engaged in manufacturing malt or malt byproducts from barley or other grains.

2084 **Wines, Brandy, and Brandy Spirits.**—Establishments primarily engaged in manufacturing wines, brandy, and brandy spirits. This industry also includes bonded storerooms which are engaged in blending wines. Establishments primarily bottling purchased wines, brandy, and brandy spirits, but which do not manufacture wines and brandy, are classified in industry 5182.

2085 **Distilled, Rectified, and Blended Liquors.**—Establishments primarily engaged in manufacturing alcoholic liquors by distillation and rectification and in manufacturing cordials and alcoholic cocktails by blending processes or by mixing liquors and other ingredients. Establishments primarily engaged in manufacturing industrial alcohol are classified in industry 2869, and those only bottling purchased liquors in industry 5182.

2086 **Bottled and Canned Soft Drinks and Carbonated Waters.**—Establishments primarily engaged in manufacturing soft drinks (nonalcoholic beverages) and carbonated waters. Establishments primarily engaged in manufacturing fruit and vegetable juices are classified in group 203, fruit sirups for flavoring in industry 2087, and cider in industry 2099. Establishments primarily engaged in bottling natural spring waters are classified in industry 5149.

2087 **Flavoring Extracts and Flavoring Sirups, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing flavoring extracts, sirups, and fruit juices, not elsewhere classified, for soda fountain use or for the manufacture of soft drinks, and colors for bakers' and confectioners' use. Establishments primarily engaged in manufacturing chocolate sirup are classified in industry 2066 if from cacao beans and in industry 2099 if from purchased chocolate.

209 MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS

2091 **Canned and Cured Fish and Seafoods.**—Establishments primarily engaged in cooking and canning fish, shrimp, oysters, clams, crabs, and other seafoods, including soups; and those engaged in smoking, salting, drying, or otherwise curing fish for the trade. Establishments primarily engaged in shucking and packing fresh oysters in nonsealed containers, or in freezing and packaging fresh fish, are classified in industry 2092.

2092 **Fresh or Frozen Packaged Fish and Seafoods.**—Establishments primarily engaged in preparing fresh and raw or cooked frozen packaged fish and other seafood, including soups. This industry also includes establishments primarily engaged in the shucking and packing of fresh oysters in nonsealed containers.

2095 **Roasted Coffee.**—Establishments primarily engaged in roasting coffee and in manufacturing coffee concentrates and extracts in powdered, liquid, or frozen form, including freeze-dried.

2097 **Manufactured Ice.**—Establishments primarily engaged in manufacturing ice for sale. Ice plants operated by public utility companies are included in this industry when separate reports are available. When separate reports are not available, they should be classified in SIC Major Group 49. Establishments primarily engaged in manufacturing dry ice are classified in industry 2813.

2098 **Macaroni, Spaghetti, Vermicelli, and Noodles.**—Establishments primarily engaged in manufacturing dry macaroni, spaghetti, vermicelli, and noodles. Establishments primarily engaged in manufacturing canned macaroni, spaghetti, etc., are classified in industry 2032.

2099 **Food Preparations, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing prepared foods and miscellaneous food specialties, not elsewhere classified, such as baking powder, yeast, and other leavening compounds; chocolate and cocoa products, except confectionery, made from purchased materials; peanut butter; packaged tea including instant; ground spices; potato, corn, and other chips; and vinegar and cider.

21 TOBACCO MANUFACTURES

This major group includes establishments engaged in manufacturing cigarettes, cigars, smoking and chewing tobacco, and snuff, and in stemming and redrying tobacco. The manufacture of insecticides from tobacco byproducts is included in SIC Major Group 28.

211 CIGARETTES

2111 **Cigarettes.**—Establishments engaged in manufacturing cigarettes.

212 CIGARS

2121 **Cigars.**—Establishments engaged in manufacturing cigars. Retail stores producing cigars are classified in trade industries.

213 TOBACCO (CHEWING AND SMOKING) AND SNUFF

2131 **Tobacco (Chewing and Smoking) and Snuff.**—Establishments engaged in manufacturing smoking and chewing tobaccos, and snuff.

214 TOBACCO STEMMING AND REDRYING

2141 **Tobacco Stemming and Redrying.**—Establishments primarily engaged in the stemming and redrying of tobacco. Establishments which sell leaf tobacco as merchant wholesalers, agents, or brokers, and which may be also engaged in stemming tobacco, are classified in SIC Major Group 51. Leaf tobacco warehouses which may be also engaged in stemming tobacco are classified in SIC Major Group 42.

22 TEXTILE MILL PRODUCTS

This major group includes establishments engaged in performing any of the following operations: (1) Preparation of fiber and subsequent manufacturing yarn, thread, braids, twine, and cordage; (2) manufacturing broadwoven fabric, narrow woven fabric, knit fabric, and carpets and rugs from yarn; (3) dyeing and finishing fiber, yarn, fabric, and knit apparel; (4) coating, waterproofing, or otherwise treating fabric; (5) the integrated manufacture of knit apparel and other finished articles from yarn; and (6) the manufacture of felt goods, lace goods, nonwoven fabrics, and miscellaneous textiles.

This classification makes no distinction between the two types of organizations which operate in the textile industry: (1) The "integrated" mill which purchases materials, produces textiles and related articles within the establishment, and sells the finished products; and (2) the "contract" or "commission" mill which processes materials owned by others. Converters or other nonmanufacturing establishments which assign materials to contract mills for processing (other than knitting) are classified in nonmanufacturing industries; establishments which assign yarns to outside contractors or commission knitters for the production of knit products are classified in group 225.

221 BROADWOVEN FABRIC MILLS, COTTON

2211 **Broadwoven Fabric Mills, Cotton.**—Establishments primarily engaged in weaving fabrics over 12 inches in width, wholly or chiefly by weight of cotton. Establishments primarily engaged in weaving cotton carpets and rugs are classified in industry 2271; those tufting carpets and rugs in industry 2272; those making tire cord and fabric in industry 2296; and finishers of cotton broadwoven fabrics in industry 2261.

222 BROAD WOVEN FABRIC MILLS, MANMADE FIBER AND SILK

2221 **Broadwoven Fabric Mills, Manmade Fiber and Silk.**—Establishments primarily engaged in weaving fabrics over 12 inches in width, wholly or chiefly by weight of silk and manmade fibers, including glass. Establishments primarily engaged in weaving carpets and rugs from these fibers are classified in industry 2271; those tufting carpets and rugs from these fibers in industry 2272; those making tire cord and fabric in industry 2296; and finishers of manmade fiber and silk broadwoven goods in industry 2262.

223 BROADWOVEN FABRIC MILLS, WOOL (INCLUDING DYEING AND FINISHING)

2231 **Broadwoven Fabric Mills, Wool (Including Dyeing and Finishing).**—Establishments primarily engaged in

weaving fabrics over 12 inches in width, wholly or chiefly by weight of wool, mohair, or similar animal fibers; those dyeing and finishing all woven wool fabrics or dyeing wool, tops, or yarn; and those shrinking and sponging wool goods for the trade. Establishments primarily engaged in weaving wool carpets and rugs are classified in industry 2271, and those tufting wool carpets and rugs in industry 2272.

224 NARROW FABRICS AND OTHER SMALLWARES MILLS: COTTON, WOOL, SILK, AND MANMADE FIBER

2241 **Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Manmade Fiber.**—Establishments primarily engaged in weaving or braiding fabrics 12 inches or narrower in width of cotton, wool, silk, and manmade fibers, including glass fibers. Establishments primarily engaged in producing fabric-covered elastic yarn or thread are also included in this industry.

225 KNITTING MILLS

This group includes three types of organizations which operate in the knitting mill industry: (1) The "integrated" mill which purchases materials, produces textiles and related articles within the establishment, and sells the finished products; (2) the "contract" or "commission" mill which processes materials owned by others; and (3) establishments commonly known as jobbers or converters of knit goods which perform the entrepreneurial functions of a manufacturing company, such as buying the raw material, designing and preparing samples, and assigning yarns to others for knitting products on their account.

2251 **Women's Full Length and Knee Length Hosiery.**—Establishments primarily engaged in knitting, dyeing, or finishing women's and misses' full length and knee length hosiery, both seamless and full-fashioned, and panty hose.

2252 **Hosiery, Except Women's Full Length and Knee Length Hosiery.**—Establishments primarily engaged in knitting, dyeing, or finishing hosiery except women's and misses' full length and knee length seamless and full-fashioned hosiery and panty hose.

2253 **Knit Outerwear Mills.**—Establishments primarily engaged in knitting outerwear from yarn or in manufacturing outerwear from knit fabric produced in the same establishment. Establishments primarily engaged in handknitting outerwear for the trade are included in this industry. Establishments primarily engaged in knitting gloves and mittens are classified in industry 2259, and those manufacturing outerwear from purchased knit fabric in SIC Major Group 23.

2254 **Knit Underwear Mills.**—Establishments primarily engaged in knitting underwear and nightwear from yarn or in manufacturing underwear and nightwear from knit fabric produced in the same establishment. Establishments primarily engaged in manufacturing underwear and nightwear from purchased knit fabric are classified in SIC Major Group 23.

2257 **Circular Knit Fabric Mills.**—Establishments primarily engaged in knitting circular (tubular) fabric or in dyeing or finishing circular (tubular) knit fabric. Establishments primarily engaged in knitting, dyeing, or finishing warp fabric are classified in industry 2258.

2258 **Warp Knit Fabric Mills.**—Establishments primarily engaged in knitting warp (flat) fabric or in dyeing or finishing warp (flat) knit fabric. Establishments primarily engaged in knitting, dyeing, or finishing circular fabric are classified in industry 2257.

2259 **Knitting Mills, Not Elsewhere Classified.**—Establishments primarily engaged in knitting gloves and other articles not elsewhere classified. Establishments primarily engaged in manufacturing woven or knit fabric gloves and mittens from purchased fabrics are classified in industry 2381.

226 DYEING AND FINISHING TEXTILES, EXCEPT WOOL FABRICS AND KNIT GOODS

2261 **Finishers of Broadwoven Fabrics of Cotton.**—Establishments primarily engaged in finishing purchased cotton broadwoven fabrics or finishing such fabrics on a commission basis. These finishing operations include bleaching, dyeing, printing (roller, screen, flock, plisse), and other mechanical finishing such as preshrinking, calendering, and napping. This industry also includes the shrinking and sponging of cloth for the trade, and chemical finishing for water repellency, fire resistance, and mildew proofing. Establishments primarily engaged in finishing wool broadwoven fabrics are classified in industry 2231; knit goods in group 225; and those coating or impregnating fabrics in industry 2295.

2262 **Finishers of Broadwoven Fabrics of Manmade Fiber and Silk.**—Establishments primarily engaged in finishing purchased manmade fiber and silk broadwoven fabrics or finishing such fabrics on a commission basis. These finishing operations include bleaching, dyeing, printing (roller, screen, flock, plisse), and other mechanical finishing such as preshrinking, calendering, and napping. Establishments primarily engaged in finishing wool broadwoven fabrics are classified in industry 2231; knit goods in group 225; and those coating or impregnating fabrics in industry 2295.

2269 **Finishers of Textiles, Not Elsewhere Classified.**—Establishments primarily engaged in dyeing and finishing textiles, not elsewhere classified, such as bleaching, dyeing, printing, and finishing of raw stock, yarn, braided goods, and narrow fabrics, except wool and knit fabrics. These establishments perform finishing operations on purchased textiles or on a commission basis.

227 FLOOR COVERING MILLS

2271 **Woven Carpets and Rugs.**—Establishments primarily engaged in weaving carpets and rugs from any textile yarn. Important products of this industry include Axminster, Wilton, velvet, and similar woven carpets and rugs; and woven automobile and aircraft floor coverings.

2272 **Tufted Carpets and Rugs.**—Establishments primarily engaged in tufting carpets and rugs from any textile fiber. Important products of this industry include tufted carpets, rugs, scatter rugs, and bathmats and bathmat sets except terry woven. Finishers of these products are also included in this industry.

2279 **Carpets and Rugs, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing rugs, carpets, art squares, floor mattings, needle punch carpeting, and doormats and mattings from twisted paper, grasses, reeds, coir, sisal, jute, or rags. Establishments primarily engaged in manufacturing hard-surface floor coverings, except rubber and cork, are classified in industry 3996.

228 YARN AND THREAD MILLS

2281 **Yarn Spinning Mills: Cotton, Manmade Fibers and Silk.**—Establishments primarily engaged in spinning yarn wholly or chiefly by weight of cotton, manmade fibers, or silk. Establishments primarily engaged in dyeing or finishing purchased yarns or finishing yarns on a commission basis are classified in industry 2269.

2282 **Yarn Texturizing, Throwing, Twisting, and Winding Mills: Cotton, Manmade Fibers and Silk.**—Establishments primarily engaged in texturizing, throwing, twisting, winding or spooling yarn wholly or chiefly by weight of cotton, manmade fibers, or silk. Establishments primarily engaged in dyeing or finishing purchased yarns or finishing yarns on a commission basis are classified in industry 2269.

2283 **Yarn Mills, Wool, Including Carpet and Rug Yarn.**—Establishments primarily engaged in spinning, twisting, winding, or spooling yarn (including carpet and rug yarn) wholly or chiefly by weight of wool, mohair, or similar animal fibers. Establishments primarily engaged in dyeing or finishing purchased wool yarn or finishing wool yarn on a commission basis are classified in industry 2231.

2284 **Thread Mills.**—Establishments primarily engaged in manufacturing thread from natural or manmade fiber except flax (industry 2299) and wool (industry 2283). Important products of this industry include sewing, crochet, darning, embroidery, tatting, handknitting, and other handicraft threads.

229 MISCELLANEOUS TEXTILE GOODS

2291 **Felt Goods, Except Woven Felts and Hats.**—Establishments primarily engaged in manufacturing pressed felt, regardless of fiber, by means of heat, moisture, and pressure; and those making punched felt for rugs, cushions, and other products from hair, jute, wool, or other fibers by the needle loom process. Establishments primarily engaged in manufacturing woven wool felts and wool haircloth are classified in industry 2231, those manufacturing felt hats in group 235, and those manufacturing needle punch carpeting in industry 2279.

2292 **Lace Goods.**—Establishments primarily engaged in manufacturing lace machine products, and those primarily engaged in dyeing and finishing lace goods. Establishments primarily engaged in manufacturing Schiffli machine embroideries are classified in industry 2397. Establishments primarily engaged in manufacturing knitted lace and netting are classified in industry 2258.

2293 **Paddings and Upholstery Filling.**—Establishments primarily engaged in manufacturing batting, padding, wadding, and filling for upholstery, pillows, quilts, and apparel, from curled hair, cotton-mill waste, moss, hemp tow, flax tow, kapok, and related materials. Establishments primarily engaged in manufacturing wood excelsior pads and wrappers are classified in industry 2429.

2294 **Processed Waste and Recovered Fibers and Flock.**—Establishments primarily engaged in processing textile mill waste for spinning, padding, batting, or other uses; in recovering textile fibers from clippings and rags; in cutting flock from waste, recovered fibers, or new fiber stock; and in manufacturing oakum and twisted jute packing. Establishments primarily engaged in cleaning and sorting wiping rags or waste are classified in industry 5093.

2295 **Coated Fabrics, Not Rubberized.**—Establishments primarily engaged in manufacturing coated and impregnated textiles and in the special finishing of textiles, such as varnishing and waxing. Establishments primarily engaged in rubberizing purchased fabrics are classified in industry 3069, and those primarily engaged in dyeing and finishing textiles in group 226.

2296 **Tire Cord and Fabric.**—Establishments primarily engaged in manufacturing cord and fabric for use in reinforcing rubber tires, industrial belting, fuel cells, and similar uses.

2297 **Nonwoven Fabrics.**—Establishments primarily engaged in manufacturing nonwoven fabrics (by bonding and/or interlocking of fibers) by mechanical, chemical, thermal, or solvent means or by combinations thereof. Establishments primarily engaged in producing fabrics by the wool felting process are classified in other industries in this major group.

2298 **Cordage and Twine.**—Establishments primarily engaged in manufacturing rope, cable, cordage, twine, and related products from abaca (Manila), sisal, henequen, hemp, cotton, paper, jute, flax, manmade fibers including glass, and other fibers.

2299 **Textile Goods, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing linen goods, jute goods except felt, and other textile goods not elsewhere classified. Establishments primarily engaged in processing textile fibers to prepare them for spinning, such as wool scouring and carbonizing and combing and converting tow to top, are also classified here. Establishments primarily engaged in manufacturing woven felts are classified in industry 2231, nonwoven felts in industry 2291, nonwoven textiles in industry 2297, and cordage and twine in industry 2298.

23 APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

This major group, known as the cutting-up and needle trades, includes establishments producing clothing and fabricating products by cutting and sewing purchased woven or knit textile fabrics and related materials such as leather, rubberized fabrics, plastics, and furs.

Included in the apparel industries are three types of establishments: (1) The "regular" or inside factories, (2) contract factories, and (3) apparel jobbers. The regular factories perform all of the usual manufacturing functions within their own plant; the contract factories manufacture apparel from materials owned by others; and apparel jobbers perform the entrepreneurial functions of a manufacturing company, such as buying raw materials, designing and preparing samples, arranging for the manufacture of the garments from their materials, and selling of the finished apparel.

Custom tailors and dressmakers not operating on a factory basis are classified in industry 5699; establishments which purchase and resell finished garments but do not perform the functions of the apparel jobbers are classified in group 513.

231 MEN'S, YOUTHS', AND BOYS' SUITS, COATS, AND OVERCOATS

2311 **Men's, Youths', and Boys' Suits, Coats, and Overcoats.**—Establishments primarily engaged in manufacturing men's, youths', and boys' tailored suits, coats, and overcoats. Establishments primarily engaged in manufacturing uniforms (except athletic uniforms) are also included in this industry. Establishments primarily engaged in manufacturing men's work garments are classified in industry 2328.

232 MEN'S, YOUTHS', AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

2321 **Men's, Youths', and Boys' Shirts (Except Work Shirts) and Nightwear.**—Establishments primarily

engaged in manufacturing men's, youths', and boys' shirts (including polo and sports shirts) and nightwear, cut and sewed from purchased woven or knit fabric. Establishments primarily engaged in manufacturing work shirts are classified in industry 2328. Knitting mills primarily engaged in manufacturing nightwear are classified in industry 2254, and outerwear in industry 2253.

2322 **Men's, Youths', and Boys' Underwear.**—Establishments primarily engaged in manufacturing men's, youths', and boys' underwear, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing underwear are classified in industry 2254.

2323 **Men's, Youths', and Boys' Neckwear.**—Establishments primarily engaged in manufacturing men's, youths', and boys' neckties, scarfs, and mufflers, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing neckties, scarfs, and mufflers are classified in industry 2253.

2327 **Men's, Youths', and Boys' Separate Trousers.**—Establishments primarily engaged in manufacturing men's, youths', and boys' separate trousers and slacks. Establishments primarily engaged in manufacturing complete suits are classified in industry 2311, and work pants and jeans in industry 2328.

2328 **Men's, Youths', and Boys' Work Clothing.**—Establishments primarily engaged in manufacturing men's, youths', and boys' work shirts, pants, jeans, and other work clothing and washable service apparel.

2329 **Men's, Youths', and Boys' Clothing, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing men's, youths', and boys' clothing not elsewhere classified. Establishments primarily engaged in manufacturing polo and sport shirts from purchased woven or knit materials are classified in industry 2321; separate trousers in industry 2327; work clothing in industry 2328; and leather and sheep lined garments in industry 2386. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

233 WOMEN'S, MISSES', AND JUNIORS' OUTERWEAR

2331 **Women's, Misses', and Juniors' Blouses, Waists, and Shirts.**—Establishments primarily engaged in manufacturing women's, misses', and juniors' blouses, waists, and shirts. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253. Establishments primarily engaged in manufacturing girls', children's, and infants' blouses, waists, and shirts are classified in industry 2361.

2335 **Women's, Misses', and Juniors' Dresses.**—Establishments primarily engaged in manufacturing women's, misses', and juniors' dresses, including ensemble dresses and pants dresses, whether sold by the piece or by the dozen. Establishments primarily engaged in manufacturing girls', children's, and infants' dresses are classified in industry 2361.

2337 **Women's, Misses', and Juniors' Suits, Skirts, and Coats.**—Establishments primarily engaged in manufacturing women's, misses', and juniors' suits, pantsuits, skirts, and coats except furcoats and raincoats. These garments are generally tailored and usually lined. Establishments primarily engaged in manufacturing fur garments are classified in industry 2371, raincoats in industry 2385, and knitting mills primarily engaged in manufacturing knit outerwear in industry 2253.

2339 **Women's, Misses', and Juniors' Outerwear, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing women's, misses', and juniors' outerwear, not elsewhere classified, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

234 WOMEN'S, MISSES', CHILDREN'S, AND INFANTS' UNDERGARMENTS

2341 **Women's, Misses', Children's, and Infants' Underwear and Nightwear.**—Establishments primarily engaged in manufacturing women's, misses', children's, and infants' underwear and nightwear, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing underwear and nightwear are classified in industry 2254.

2342 **Brassieres, Girdles, and Allied Garments.**—Establishments primarily engaged in manufacturing brassieres, girdles, corsets, corset accessories, and allied garments. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in industry 3842.

235 HATS, CAPS, AND MILLINERY

2351 Millinery.—Establishments primarily engaged in manufacturing women's, misses', children's, and infants' millinery. Establishments primarily engaged in manufacturing millinery braid and trimmings are classified in industry 2396.

2352 Hats and Caps, Except Millinery.—Establishments primarily engaged in manufacturing hats and caps (except millinery) and all hat bodies. Knitting mills primarily engaged in manufacturing caps are classified in industry 2253.

236 GIRLS', CHILDREN'S, AND INFANTS' OUTERWEAR

2361 Girls', Children's, and Infants' Dresses, Blouses, Waists, and Shirts.—Establishments primarily engaged in manufacturing girls', children's, and infants' dresses, blouses, waists, and shirts, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

2363 Girls', Children's, and Infants' Coats and Suits.—Establishments primarily engaged in manufacturing girls', children's, and infants' coats and suits, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

2369 Girls', Children's, and Infants' Outerwear, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing girls', children's, and infants' outerwear, not elsewhere classified, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

237 FUR GOODS

2371 Fur Goods.—Establishments primarily engaged in manufacturing furcoats, and other garments, accessories, and trimmings made of fur. Establishments primarily engaged in manufacturing sheep lined clothing are classified in industry 2386, and those engaged in dyeing and dressing of furs in industry 3999.

238 MISCELLANEOUS APPAREL AND ACCESSORIES

2381 Dress and Work Gloves, Except Knit and All-Leather.—Establishments primarily engaged in manufacturing dress, semidress, and work gloves and mittens, cut and sewed from purchased woven or knit fabric, or these materials combined with leather or plastic. Knitting mills primarily engaged in manufacturing gloves and mittens are classified in industry 2259, establishments primarily engaged in manufacturing leather gloves in industry 3151, those manufacturing rubber gloves in industry 3069, and plastic gloves in industry 3079.

2384 Robes and Dressing Gowns.—Establishments primarily engaged in manufacturing men's and women's robes and dressing gowns.

2385 Raincoats and Other Waterproof Outer Garments.—Establishments primarily engaged in manufacturing raincoats from purchased rubberized fabrics and other waterproof outer garments made from such material as pliofilm and cellophane. Establishments primarily engaged in manufacturing oiled fabric work garments are classified in industry 2328, and those manufacturing vulcanized rubber garments and garments made from rubberized fabrics produced in the same establishment are classified in industry 3069.

2386 Leather and Sheep Lined Clothing.—Establishments primarily engaged in manufacturing leather and sheep lined garments. Establishments primarily engaged in manufacturing leather gloves and mittens are classified in industry 3151, and fur garments in industry 2371.

2387 Apparel Belts.—Establishments primarily engaged in manufacturing men's and women's apparel belts, regardless of material.

2389 Apparel and Accessories, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing suspenders, garters, handkerchiefs, and other apparel, not elsewhere classified, such as academic caps and gowns, vestments, and theatrical costumes.

239 MISCELLANEOUS FABRICATED TEXTILE PRODUCTS

2391 Curtains and Draperies.—Establishments primarily engaged in manufacturing curtains and draperies from

purchased materials. Establishments primarily engaged in manufacturing lace curtains on lace machines are classified in industry 2292.

2392 **Housefurnishings, Except Curtains and Draperies.**—Establishments primarily engaged in manufacturing housefurnishings, such as blankets, bedspreads, sheets, tablecloths, and towels from purchased materials. Establishments primarily engaged in manufacturing curtains and draperies are classified in industry 2391. Establishments producing housefurnishings primarily of fabric woven at the same establishment are classified according to fiber in industries 2211, 2221, or 2231.

2393 **Textile Bags.**—Establishments primarily engaged in manufacturing shipping and other industrial bags from purchased fabric. Establishments primarily engaged in manufacturing plastic bags are classified in industry 2643; laundry, wardrobe, shoe, and other textile housefurnishing bags in industry 2392; and luggage in industry 3161.

2394 **Canvas and Related Products.**—Establishments primarily engaged in manufacturing awnings, tents, and related products from purchased fabric. Establishments primarily engaged in manufacturing canvas bags are classified in industry 2393.

2395 **Pleating, Decorative and Novelty Stitching, and Tucking for the Trade.**—Establishments primarily engaged in pleating, decorative and novelty stitching, and tucking for the trade. Establishments primarily engaged in performing similar services for individuals are classified in service industries. Establishments primarily engaged in manufacturing trimmings are classifled in industry 2396.

2396 **Automotive Trimmings, Apparel Findings, and Related Products.**—Establishments primarily engaged in manufacturing automotive trimmings and apparel findings and related products.

2397 **Schiffli Machine Embroideries.**—Establishments primarily engaged in manufacturing Schiffli machine embroideries.

2399 **Fabricated Textile Products, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing fabricated textile products not elsewhere classified.

24 LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

This major group includes logging camps engaged in cutting timber and pulpwood; merchant sawmills, lath mills, shingle mills, cooperage stock mills, planing mills, and plywood mills and veneer mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood or wood substitutes. Certain types of establishments producing wood products are classified elsewhere. For example, furniture and office and store fixtures are classified in SIC Major Group 25; musical instruments, toys, playground equipment, and caskets in SIC Major Group 39. Woodworking in connection with construction in the nature of reconditioning and repair or performed to individual order, is classified in nonmanufacturing industries.

241 LOGGING CAMPS AND LOGGING CONTRACTORS

2411 **Logging Camps and Logging Contractors.**—Logging camps and logging contractors primarily engaged in cutting timber and in producing rough, round, hewn, or riven primary forest or wood raw materials. Independent contractors engaged in estimating or trucking timber, but who perform no cutting operations, are classified in nonmanufacturing industries. Logging and woods operations conducted in combination with sawmills, pulpmills, or other converting establishments, and not separately reported, are classified in their respective industry groups; namely, with sawmills in SIC group 242, veneer and plywood mills in SIC group 243, pulpmills in SIC Major Group 26, and charcoal and wood distillation plants in SIC group 286. Establishments primarily engaged in the collection of bark, sap, gum, and other forest byproducts are classified in SIC Major Group 08.

242 SAWMILLS AND PLANING MILLS

2421 **Sawmills and Planing Mills, General.**—Establishments primarily engaged in sawing rough lumber and timber from logs and bolts, or resawing cants and flitches into lumber, including box lumber and softwood cut stock; planing mills combined with sawmills; and separately operated planing mills which are engaged primarily in producing surfaced

lumber and standard workings or patterns of lumber. This industry includes establishments primarily engaged in sawing lath and railroad ties and in producing tobacco hogshead stock, wood chips, and snow fence lath. Establishments primarily engaged in manufacturing box shook or boxes are classified in SIC group 244; sash, doors, wood molding, window and door frames, and other fabricated millwork in SIC group 243; and hardwood dimension and flooring in industry 2426. Logging camps combined with sawmills, when not separately reported, are included in this industry.

2426 **Hardwood Dimension and Flooring Mills.**—Establishments primarily engaged in manufacturing hardwood dimension lumber and workings therefrom; other hardwood dimension, semifabricated or ready for assembly; hardwood flooring; and wood frames for household furniture. Establishments primarily engaged in manufacturing stairwork, molding, and trim are classified in industry 2431; and those manufacturing textile machinery bobbins, picker sticks, and shuttles in industry 3552.

2429 **Special Product Sawmills, Not Elsewhere Classified.**—Mills primarily engaged in manufacturing excelsior, wood shingles, and cooperage stock; and in sawing special products not elsewhere classified.

243 MILLWORK, VENEER, PLYWOOD, AND STRUCTURAL WOOD MEMBERS

2431 **Millwork.**—Establishments primarily engaged in manufacturing fabricated millwork. Planing mills primarily engaged in producing millwork are included in this industry, but planing mills primarily producing standard workings or patterns of lumber are classified in industry 2421. Establishments primarily manufacturing wood kitchen cabinets and bathroom vanities are classified in industry 2434.

2434 **Wood Kitchen Cabinets.**—Establishments primarily engaged in manufacturing wood kitchen cabinets and wood bathroom vanities.

2435 **Hardwood Veneer and Plywood.**—Establishments primarily engaged in producing commercial hardwood veneer, either face or technical, and those primarily engaged in manufacturing commercial plywood or prefinished hardwood plywood. This includes nonwood backed or faced veneer and nonwood faced plywood from veneer produced in the same establishment or from purchased veneer. Establishments primarily engaged in the production of veneer which is used in the same establishment for the manufacture of end products such as fruit and vegetable baskets and wood boxes are classified in industries 2441 and 2449.

2436 **Softwood Veneer and Plywood.**—Establishments primarily engaged in producing commercial softwood veneer and plywood from veneer produced in the same establishment or from purchased veneer. Establishments primarily engaged in producing commercial hardwood veneer and plywood are classified in industry 2435. Establishments primarily engaged in the production of veneer which is used in the same establishment for the manufacture of end products such as fruit and vegetable baskets and wood boxes are classified in industries 2441 and 2449.

2439 **Structural Wood Members, Not Elsewhere Classified.**—Establishments primarily engaged in producing laminated or fabricated trusses, arches, and other structural members of lumber. Establishments primarily engaged in fabrication on the site of construction are classified in Division C, Construction. Establishments primarily engaged in producing prefabricated wooden buildings, sections, and panels are classified in industry 2452.

244 WOOD CONTAINERS

2441 **Nailed and Lock Corner Wood Boxes and Shook.**—Establishments primarily engaged in manufacturing nailed and lock corner wood boxes (lumber or plywood) and those which also may produce shook for nailed and lock corner boxes.

2448 **Wood Pallets and Skids.**—Establishments primarily engaged in manufacturing wood and wood-metal combination pallets and skids.

2449 **Wood Containers, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing wood containers, not elsewhere classified, such as cooperage, wirebound boxes and crates, and other veneer and plywood containers. Establishments primarily engaged in manufacturing tobacco hogshead stock are classified in industry 2421, and those manufacturing cooperage stock in industry 2429.

245 WOOD BUILDINGS AND MOBILE HOMES

2451 **Mobile Homes.**—Establishments primarily engaged in manufacturing mobile homes. These mobile homes are generally over 35 feet long, at least 8 feet wide, do not have facilities for storage of water or waste, and are equipped with wheels. These products may also have nonresidential uses such as classrooms or offices. Trailers that are generally 35 feet long or less, 8 feet wide or less, and with self-contained facilities are classified in industry 3792. Portable buildings not equipped with wheels are classified in industry 2452.

2452 **Prefabricated Wood Buildings and Components.**—Establishments primarily engaged in manufacturing prefabricated wood buildings, sections, and panels. Establishments primarily engaged in fabricating buildings on the site of construction are classified in Division C, Construction.

249 MISCELLANEOUS WOOD PRODUCTS

2491 **Wood Preserving.**—Establishments primarily engaged in treating wood, sawed or planed in other establishments, with creosote or other preservatives to prevent decay and to protect against fire and insects. This industry also includes the cutting, treating, and selling of poles, posts, and piling, but establishments primarily engaged in manufacturing other wood products, which they may also treat with preservatives, are not included.

2492 **Particleboard.**—Establishments primarily engaged in manufacturing wood panel products from small wood particles. This includes preparation of small particles of wood, drying, mixing with a synthetic resin binder, and compressing. Pressing may take place in hydraulic presses with heated platens or by extrusion.

2499 **Wood Products, Not Elsewhere Classified.**—Establishments primarily engaged in turning and shaping wood and manufacturing miscellaneous wood products, not elsewhere classified, from rattan, reed, splint, straw, veneer, veneer strips, wicker, and willow. This industry also includes establishments manufacturing lasts and related products, cork products, hardboard, and wood or metal mirror and picture frames. Establishments primarily engaged in manufacturing particleboard are classified in industry 2492, and those manufacturing pallets and skids in industry 2448.

25 FURNITURE AND FIXTURES

This major group includes establishments engaged in manufacturing household, office, public building, and restaurant furniture; and office and store fixtures. Establishments primarily engaged in the production of millwork are classified in industry 2431; wood kitchen cabinets in industry 2434; cut stone and concrete furniture in SIC Major Group 32; laboratory and hospital furniture in SIC Major Group 38; beauty and barber shop furniture in SIC Major Group 39; and woodworking to individual order or in the nature of reconditioning and repair in nonmanufacturing industries.

251 HOUSEHOLD FURNITURE

2511 **Wood Household Furniture, Except Upholstered.**—Establishments primarily engaged in manufacturing wood household furniture commonly used in dwellings. This industry also includes establishments manufacturing camp furniture. Establishments primarily engaged in manufacturing upholstered furniture are classified in industry 2512; reed and rattan furniture in industry 2519; television, radio, phonograph, and sewing machine cabinets in industry 2517; and kitchen cabinets and bathroom vanities in industry 2434.

2512 **Wood Household Furniture, Upholstered.**—Establishments primarily engaged in manufacturing upholstered furniture on wood frames. Shops primarily engaged in reupholstering furniture, or upholstering frames to individual order, are classified in nonmanufacturing industries. Establishments primarily engaged in manufacturing dual-purpose sleep furniture, such as studio couches, sofa beds, and chair beds, are classified in industry 2515, regardless of the material used in the frame. Establishments primarily engaged in manufacturing wood frames for upholstered furniture are classified in industry 2426.

2514 **Metal Household Furniture.**—Establishments primarily engaged in manufacturing padded or plain metal household furniture of a type commonly used in dwellings. Establishments primarily engaged in manufacturing dual-purpose sleep furniture, such as studio couches, sofa beds, and chair beds, are classified in industry 2515, regardless of the material used in the frame.

2515 **Mattresses and Bedsprings.**—Establishments primarily engaged in manufacturing innerspring mattresses, box spring mattresses, and noninnerspring mattresses containing felt, form rubber, urethane, hair, or any other filling material; and assembled wire springs (fabric, coil, or box) for use on beds, couches, and cots. This industry also includes establishments primarily engaged in manufacturing dual-purpose sleep furniture, such as studio couches, sofa beds, and chair beds, regardless of the material used in the frame. Establishments primarily engaged in manufacturing automobile seats and backs are classified in industry 2531; individual wire springs in industry 3495; and paddings and upholstery filling in industry 2293.

2517 **Wood Television, Radio, Phonograph, and Sewing Machine Cabinets.**—Establishments primarily engaged in manufacturing wood cabinets for radios, television sets, phonographs, and sewing machines.

2519 **Household Furniture, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing reed, rattan, and other wicker furniture, plastics and fiberglass household furniture and cabinets, and household furniture not elsewhere classified.

252 OFFICE FURNITURE

2521 **Wood Office Furniture.**—Establishments primarily engaged in manufacturing wood office furniture, whether padded, upholstered, or plain.

2522 **Metal Office Furniture.**—Establishments primarily engaged in manufacturing metal office furniture, whether padded or plain. Establishments primarily engaged in manufacturing safes and vaults are classified in industry 3499.

253 PUBLIC BUILDING AND RELATED FURNITURE

2531 **Public Building and Related Furniture.**—Establishments primarily engaged in manufacturing furniture for schools, theaters, assembly halls, churches, and libraries. Establishments primarily engaged in manufacturing seats for public conveyances, as well as seats for automobiles and aircraft, are included in this industry. Establishments primarily engaged in manufacturing stone furniture are classified in industry 3281, and concrete furniture in industry 3272.

254 PARTITIONS, SHELVING, LOCKERS, AND OFFICE AND STORE FIXTURES

2541 **Wood Partitions, Shelving, Lockers, and Office and Store Fixtures.**—Establishments primarily engaged in manufacturing wood shelving, lockers, office and store fixtures, prefabricated partitions, plastic laminated fixture tops, and related fabricated products. Establishments primarily engaged in manufacturing refrigerated cabinets, show cases, and display cases are classified in industry 3585, and safes and vaults in industry 3499.

2542 **Metal Partitions, Shelving, Lockers, and Office and Store Fixtures.**—Establishments primarily engaged in manufacturing metal shelving, storage racks, lockers, office and store fixtures, prefabricated partitions, and related fabricated products. Establishments primarily engaged in manufacturing refrigerated cabinets, show cases, and display cases are classified in industry 3585, and safes and vaults in industry 3499.

259 MISCELLANEOUS FURNITURE AND FIXTURES

2591 **Drapery Hardware and Window Blinds and Shades.**—Establishments primarily engaged in manufacturing curtain and drapery rods, poles, and fixtures; and venetian blinds and other window blinds and shades, regardless of the materials used, except canvas shades and awnings (industry 2394).

2599 **Furniture and Fixtures, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing furniture and fixtures, not elsewhere classified, including furniture specially designed for use in restaurants, bars, cafeterias, bowling establishments, and ships.

26 PAPER AND ALLIED PRODUCTS

This major group includes the manufacture of pulps from wood and other cellulose fibers, and from rags; the manufacture of paper and paperboard; and the manufacture of paper and paperboard into converted products such as paper coated off the paper machine, paper bags, paper boxes and envelopes. Certain types of converted paper products are classified elsewhere, such as abrasive paper in industry 3291, carbon paper in industry 3955, and photosensitized and blueprint paper in industry 3861.

261 PULPMILLS

2611 Pulpmills.—Establishments primarily engaged in manufacturing pulp from wood or from other materials such as rags, linters, wastepaper, and straw. Logging camps operated by pulpmills, and not separately reported, are also included in this industry. Establishments primarily engaged in cutting pulpwood are classified in industry 2411; and pulpmills combined with papermills or paperboard mills, and not separately reported, are classified with the latter in industries 2621 and 2631, respectively.

262 PAPERMILLS, EXCEPT BUILDING PAPERMILLS

2621 Papermills, Except Building Papermills.—Establishments primarily engaged in manufacturing paper (except building paper—industry 2661) from woodpulp and other fibers, and which may also manufacture converted paper products. Pulpmills combined with papermills, and not separately reported, are also included in this industry; where separately reported, they are classified in industry 2611. Establishments primarily engaged in manufacturing converted paper products from purchased paper stock are classified in SIC groups 264 or 265.

263 PAPERBOARD MILLS

2631 Paperboard Mills.—Establishments primarily engaged in manufacturing paperboard, including paperboard coated on the paperboard machine, from woodpulp and other fibers; and which may also manufacture converted paperboard products. Pulpmills combined with paperboard mills, and not separately reported, are also included in this industry; where separately reported, they are classified in industry 2611. Establishments primarily engaged in manufacturing converted paperboard products from purchased paperboard are classified in SIC groups 264 or 265, and building board in industry 2661.

264 CONVERTED PAPER AND PAPERBOARD PRODUCTS, EXCEPT CONTAINERS AND BOXES

2641 Paper Coating and Glazing.—Establishments primarily engaged in manufacturing coated, glazed, or varnished paper from purchased paper. Also included are establishments primarily manufacturing pressure sensitive tape with backing of any material other than rubber. Establishments primarily engaged in manufacturing carbon paper are classified in industry 3955, and photographic and blueprint paper in industry 3861.

2642 Envelopes.—Establishments primarily engaged in manufacturing envelopes of any description from purchased paper and paperboard. Establishments primarily engaged in manufacturing papeteries (boxed stationery) are classified in industry 2648.

2643 Bags, Except Textile Bags.—Establishments primarily engaged in manufacturing bags from purchased paper, cellophane, acetate, polyethylene, polypropylene, pliofilm, foil, and similar sheet or film materials.

2645 Die-Cut Paper and Paperboard and Cardboard.—Establishments primarily engaged in diecutting purchased paper and paperboard; and in manufacturing cardboard by laminating, lining, or surface coating paperboard. Establishments primarily engaged in laminating building paper or building board from purchased paper or board are classified in industry 2649.

2646 Pressed and Molded Pulp Goods.—Establishments primarily engaged in manufacturing all kinds of pressed and molded pulp goods, including papier-mache articles other than statuary and art goods (industry 3299). Establishments primarily engaged in manufacturing plates and utensils from paper are classified in industry 2654.

2647 Sanitary Paper Products.—Establishments primarily engaged in manufacturing, from purchased paper, sanitary paper products, such as facial tissues and handkerchiefs, table napkins, toilet paper, towels, disposable diapers, and sanitary napkins and tampons.

2648 Stationery, Tablets, and Related Products.—Establishments primarily engaged in manufacturing stationery, tablets, looseleaf fillers, and related items from purchased paper. Establishments primarily engaged in manufacturing envelopes are classified in industry 2642.

2649 Converted Paper and Paperboard Products, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing from purchased paper or paperboard miscellaneous converted paper or paperboard

products not elsewhere classified. Establishments primarily engaged in manufacturing sanitary paper products from purchased paper are classified in industry 2647. The paper stock used for wallpaper, called "hanging paper," is classified in industry 2621. Establishments primarily engaged in manufacturing stationery, tablets, and related products are classified in industry 2648.

265 PAPERBOARD CONTAINERS AND BOXES

2651 Folding Paperboard Boxes.—Establishments primarily engaged in manufacturing folding paperboard boxes from purchased paperboard.

2652 Set-up Paperboard Boxes.—Establishments primarily engaged in manufacturing set-up paperboard boxes from purchased paperboard.

2653 Corrugated and Solid Fiber Boxes.—Establishments primarily engaged in manufacturing corrugated and solid fiber boxes and related products from purchased paperboard of fiber stock. Important products of this industry include corrugated and solid fiberboard boxes, pads, partitions, display items, pallets, single-face products, and corrugated sheets.

2654 Sanitary Food Containers.—Establishments primarily engaged in manufacturing food containers from special food board. Important products of this industry include fluid milk containers; folding paraffined cartons for butter, margarine, and shortening; ice cream containers; frozen food containers; liquid tight containers; round nested food containers; paper cups for hot or cold drinks; pails for food and ice cream; and stamped plates, dishes, spoons, and similar products. Establishments primarily engaged in manufacturing similar items of plastics materials are classified in industry 3079.

2655 Fiber Cans, Tubes, Drums, and Similar Products.—Establishments primarily engaged in manufacturing from purchased materials fiber cans, cones, drums, similar products with or without metal ends, and vulcanized fiber boxes.

266 BUILDING PAPER AND BUILDING BOARD MILLS

2661 Building Paper and Building Board Mills.—Establishments primarily engaged in manufacturing building paper and building board from woodpulp and other fibrous materials. Pulpmills combined with building paper and building board mills, and not separately reported, are also included in this industry; where separately reported, they are classified in industry 2611.

27 PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

This major group includes establishments engaged in printing by one or more of the common processes, such as letterpress, lithography, gravure, or screen; and those establishments which perform services for the printing trade, such as bookbinding, typesetting, engraving, photoengraving, and electrotyping. This major group also includes establishments engaged in publishing newspapers, books, and periodicals, regardless of whether or not they do their own printing. News syndicates are classified in service industries, (industry 7351) and textile printing and finishing in SIC Major Group 22.

271 NEWSPAPERS: PUBLISHING, PUBLISHING AND PRINTING

2711 Newspapers: Publishing, Publishing and Printing.—Establishments primarily engaged in publishing newspapers or in publishing and printing newspapers. These establishments carry on the various operations necessary for issuing newspapers, including the gathering of news and the preparation of editorials and advertisements, but may or may not perform their own printing. Commercial printing is frequently carried on by establishments engaged in publishing and printing newspapers, but, even though the commercial printing may be of major importance, such establishments are included in this industry. Establishments not engaged in publishing newspapers, but which print or lithograph newspapers for publishers, are classified in SIC group 275. News syndicates are classified in service industries (industry 7351).

272 PERIODICALS: PUBLISHING, PUBLISHING AND PRINTING

2721 Periodicals: Publishing, Publishing and Printing.—Establishments primarily engaged in publishing periodicals or in preparing, publishing, and printing

periodicals. These establishments carry on the various operations necessary for issuing periodicals, but may or may not perform their own printing. Establishments not engaged in publishing periodicals, but which print or lithograph periodicals for publishers, are classified in SIC group 275.

273 BOOKS

2731 **Books: Publishing, Publishing and Printing.**—Establishments primarily engaged in publishing only, or in publishing and printing books and pamphlets. Establishments primarily engaged in printing or in printing and binding (but not publishing) books and pamphlets are classified in industry 2732.

2732 **Book Printing.**—Establishments primarily engaged in printing only or in printing and binding books and pamphlets, but not engaged in publishing. Establishments primarily engaged in publishing, or in publishing and printing books and pamphlets, are classified in industry 2731. Establishments engaged in both printing and binding books, but primarily binding books printed elsewhere, are classified in industry 2789.

274 MISCELLANEOUS PUBLISHING

2741 **Miscellaneous Publishing.**—Establishments primarily engaged in miscellaneous publishing activities, not elsewhere classified, whether or not engaged in printing. Establishments primarily engaged in offering financial, credit, or other business services, and which may publish directories as part of this service, are not included in this industry but are classified in service industries.

275 COMMERCIAL PRINTING

2751 **Commercial Printing, Letterpress and Screen.**—Establishments primarily engaged in letterpress and screen commercial or job printing, including flexographic. This industry includes general printing shops, as well as shops specializing in printing newspapers and periodicals for others, and those which specialize in screen printing. Establishments primarily engaged in printing books, without publishing, are classified in industry 2732, and greeting cards in industry 2771. Establishments primarily engaged in printing from lithographic plates are classified in industry 2752, and gravure and rotogravure printing in industry 2754.

2752 **Commercial Printing, Lithographic.**—Establishments primarily engaged in printing by the lithographic process. The greater part of the work in this industry is performed on a job or custom basis; but, in some cases, lithographed calendars, maps, posters, decalcomanias, etc., are made for sale. Offset printing, photo-offset printing, and photolithographing are also included in this industry. Establishments primarily engaged in lithographing books and pamphlets, without publishing, are classified in industry 2732, and greeting cards in industry 2771. Establishments primarily engaged in preparing lithographic plates and in related services are classified in industry 2795.

2753 **Engraving and Plate Printing.**—Establishments primarily engaged in engraving and etching steel, copper, wood, or rubber plates; in using these plates to print stationery, visiting and other cards, invitations, maps, etc.; and in making woodcuts for use in printing illustrations, posters, etc. Engraving for purposes other than printing is classified in industry 3479.

2754 **Commercial Printing, Gravure.**—Establishments primarily engaged in gravure printing.

276 MANIFOLD BUSINESS FORMS

2761 **Manifold Business Forms.**—Establishments primarily engaged in designing and printing, by any process, special forms for use in the operation of a business, in single and multiple sets, including carbonized or interleaved with carbon or otherwise processed for multiple reproduction.

277 GREETING CARD PUBLISHING

2771 **Greeting Card Publishing.**—Establishments primarily engaged in the designing, publishing, and printing by any process of greeting cards for all occasions.

278 BLANKBOOKS, LOOSELEAF BINDERS, AND BOOKBINDING AND RELATED WORK

2782 **Blankbooks, Looseleaf Binders, and Devices.**—Establishments primarily engaged in manufacturing blankbooks, looseleaf devices, and library binders; and in ruling paper.

2789 **Bookbinding and Related Work.**—Establishments primarily engaged in edition, trade, job, and library bookbinding; in book or paper bronzing, gilding, and edging; in map and sample mounting; and other services related to bookbinding. Establishments primarily binding books printed elsewhere are classified in this industry, but those primarily binding books printed in the same establishment are classified in SIC group 273.

279 SERVICE INDUSTRIES FOR THE PRINTING TRADE

2791 **Typesetting.**—Establishments primarily engaged in typesetting for the trade, including advertisement typesetting.

2793 **Photoengraving.**—Establishments primarily engaged in preparing photoengraved plates (halftones and linecuts). These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others.

2794 **Electrotyping and Stereotyping.**—Establishments primarily engaged in preparing electrotype and stereotype plates. These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others.

2795 **Lithographic Platemaking and Related Services.**—Establishments primarily engaged in making lithographic plates and positives or negatives from which lithographic plates are made, and in related services. Establishments primarily engaged in printing by the lithographic process are classified in industry 2752.

28 CHEMICALS AND ALLIED PRODUCTS

This major group includes establishments producing basic chemical and establishments manufacturing products by predominantly chemical processes. Establishments classified in this major group manufacture three general classes of products: (1) Basic chemicals such as acids, alkalies, salts, and organic chemicals; (2) chemical products to be used in further manufacture such as synthetic fibers, plastics materials, dry colors, and pigments; (3) finished chemical products to be used for ultimate consumption such as drugs, cosmetics, and soaps; or to be used as materials or supplies in other industries, such as paints, fertilizers, and explosives. The mining of natural rock salt is classified in mining industries. Establishments primarily engaged in manufacturing nonferrous metals and high-percentage ferroalloys are classified in SIC Major Group 33; silicon carbide in SIC Major Group 32; baking powder, other leavening compounds, and starches in SIC Major Group 20; and artists' colors in SIC Major Group 39. Establishments primarily engaged in packaging, repackaging, and bottling of purchased chemical products, but not engaged in manufacturing chemicals and allied products, are classified in trade industries.

281 INDUSTRIAL INORGANIC CHEMICALS

This group includes establishments primarily engaged in manufacturing basic industrial inorganic chemicals. Establishments primarily engaged in manufacturing formulated agricultural pesticides are classified in industry 2879; medicinal chemicals, drugs, and medicines in industry 2833; and soap and cosmetics in SIC group 284.

2812 **Alkalies and Chlorine.**—Establishments primarily engaged in manufacturing alkalies and chlorine.

2813 **Industrial Gases.**—Establishments primarily engaged in manufacturing gases for sale in compressed, liquid, and solid forms. Establishments primarily engaged in manufacturing fluorine and sulfur dioxide are classified in industry 2819; household ammonia in industry 2842, and other ammonia in industry 2873; and cholorine in industry 2812. Distributors of industrial gases and establishments primarily engaged in shipping liquid oxygen are classified in trade.

2816 **Inorganic Pigments.**—Establishments primarily engaged in manufacturing inorganic pigments. Important products of this industry include black pigments (except carbon black, industry 2895), white pigments, and color pigments. Organic color pigments, except animal black and bone black, are classified in industry 2865.

2819 **Industrial Inorganic Chemicals, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing industrial inorganic chemicals not elsewhere classified. Important products of this industry include inorganic salts of sodium (excluding refined sodium chloride), potassium, aluminum, calcium, chromium, magnesium, mercury, nickel, silver, tin; inorganic compounds such as alums, calcium carbide, hydrogen peroxide, sodium silicate,

ammonia compounds (except fertilizers), rare earth metal salts and elemental bromine, fluorine, iodine, phosphorus, and alkali metals (sodium, potassium, lithium, etc.). Establishments primarily engaged in mining, milling, or otherwise preparing natural potassium, sodium, or boron compounds (other than common salt) are classified in industry 1474. Establishments primarily engaged in manufacturing household bleaches are classified in industry 2842; phosphoric acid in industry 2874; and nitric acid, anhydrous ammonia, and other nitrogenous fertilizer materials in industry 2873.

282 PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC AND OTHER MANMADE FIBERS, EXCEPT GLASS

This group includes chemical establishments primarily engaged in manufacturing plastics materials and synthetic resins, synthetic rubbers, and cellulosic and manmade organic fibers. Establishments primarily engaged in the manufacture of rubber products and those primarily engaged in the compounding of purchased resins or the fabrication of plastics sheets, rods, and miscellaneous plastics products are classified in SIC Major Group 30; and textile mills primarily engaged in throwing, spinning, weaving, or knitting textile products from manufactured fibers are classified in SIC Major Group 22.

2821 **Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers.**—Establishments primarily engaged in manufacturing synthetic resins, plastics materials, and nonvulcanizable elastomers. Important products of this industry include: Cellulose plastic materials; phenolic and other tar acid resins; urea and melamine resins; vinyl resins; styrene resins; alkyd resins; acrylic resins; polyethylene resins; polypropylene resins; rosin modified resins; coumarone-indene and petroleum polymer resins; and miscellaneous resins including polyamide resins, silicones, polyisobutylenes, polyesters, polycarbonate resins, acetal resins, fluorohydrocarbon resins; and casein plastics. Establishments primarily engaged in manufacturing fabricated plastics products or plastics film, sheet, rod, nontextile monofilaments and regenerated cellulose products, and vulcanized fiber are classified in industry 3079, whether from purchased resins or from resins produced in the same plant. Establishments primarily engaged in compounding purchased resins are also classified in industry 3079. Establishments primarily manufacturing adhesives are classified in industry 2891.

2822 **Synthetic Rubber (Vulcanizable Elastomers).**—Establishments primarily engaged in manufacturing synthetic rubber by polymerization or copolymerization. An elastomer for the purpose of this classification is a rubber-like material capable of vulcanization, such as copolymers of butadiene and styrene, or butadiene and acrylonitrile, polybutadienes, chloroprene rubbers, and isobutylene-isoprene copolymers. Butadiene copolymers containing less than 50% butadiene are classified in industry 2821. Natural chlorinated rubbers and cyclized rubbers are considered as semifinished products and are classified in industry 3069.

2823 **Cellulosic Manmade Fibers.**—Establishments primarily engaged in manufacturing cellulosic fibers (including cellulose acetate and regenerated cellulose such as rayon by the viscose or cuprammonium process) in the form of monofilament, yarn, staple, or tow suitable for further manufacturing on spindles, looms, knitting machines, or other textile processing equipment. Establishments primarily engaged in manufacturing textile glass fibers are classified in industry 3229.

2824 **Synthetic Organic Fibers, Except Cellulosic.**—Establishments primarily engaged in manufacturing synthetic organic fibers, except cellulosic (including those of regenerated proteins, and of polymers or copolymers of such components as vinyl chloride, vinylidene chloride, linear esters, vinyl alcohols, acrylonitrile, ethylenes, amides, and related polymeric materials) in the form of monofilament, yarn, staple, or tow suitable for further manufacturing on spindles, looms, knitting machines, or other textile processing equipment. Establishments primarily engaged in manufacturing textile glass fibers are classified in industry 3229.

283 DRUGS

This group includes establishments primarily engaged in manufacturing, fabricating, or processing medicinal chemicals and pharmaceutical products. Also included in this group are establishments primarily engaged in the grading, grinding, and milling of botanicals.

2831 **Biological Products.**—Establishments primarily engaged in the production of bacterial and virus vaccine, toxoids and analogous products (such as allergenic extracts), serums, plasmas, and other blood derivatives for human or veterinary use.

2833 **Medicinal Chemicals and Botanical Products.**—Establishments primarily engaged in (1) manufacturing bulk organic and inorganic medicinal chemicals and their derivatives; and (2) processing (grading, grinding, and milling) bulk botanical drugs and herbs. Establishments primarily engaged in manufacturing agar-agar and similar products of natural origin, endocrine products, manufacturing or isolating basic vitamins, and isolating active medicinal principals such as alkaloids from botanical drugs and herbs are also included in this industry.

2834 **Pharmaceutical Preparations.**—Establishments primarily engaged in manufacturing, fabricating, or processing drugs in pharmaceutical preparations for human or veterinary use. The greater part of the products of these establishments are finished in the form intended for final consumption, such as ampoules, tablets, capsules, vials, ointments, medicinal powders, solutions, and suspensions. Products of this industry consist of two important lines, namely: (1) Pharmaceutical preparations promoted primarily to the dental, medical, or veterinary professions; and (2) pharmaceutical preparations promoted primarily to the public.

284 SOAP, DETERGENTS, AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS

This group includes establishments primarily engaged in manufacturing soap and other detergents and in producing glycerin from vegetable and animal fats and oils; specialty cleaning, polishing, and sanitation preparations; and surface active preparations used as emulsifiers, wetting agents, and finishing agents, including sulfonated oils; and perfumes, cosmetics, and other toilet preparations.

2841 **Soap and Other Detergents, Except Specialty Cleaners.**—Establishments primarily engaged in manufacturing soap, synthetic organic detergents, inorganic alkaline detergents, or any combination thereof, and establishments producing crude and refined glycerin from vegetable and animal fats and oils. Establishments primarily engaged in manufacturing shampoos or shaving products, whether from soap or synthetic detergents, are classified in industry 2844; and synthetic glycerin in industry 2869.

2842 **Specialty Cleaning, Polishing, and Sanitation Preparations.**—Establishments primarily engaged in manufacturing furniture, metal, and other polishes; waxes and dressings for fabricated leather and other materials; household, institutional and industrial plant disinfectants, deodorants; dry cleaning preparations; household bleaches; and other sanitation preparations. Establishments primarily manufacturing household pesticidal preparations are classified in industry 2879.

2843 **Surface Active Agents, Finishing Agents, Sulfonated Oils and Assistants.**—Establishments primarily engaged in producing surface active preparations for use as wetting agents, emulsifiers, and penetrants. Establishments engaged in producing sulfonated oils and fats and related products are also included.

2844 **Perfumes, Cosmetics, and Other Toilet Preparations.**—Establishments primarily engaged in manufacturing perfumes (natural and synthetic), cosmetics, and other toilet preparations. This industry also includes establishments primarily engaged in blending and compounding perfume bases; and those manufacturing shampoos and shaving products, whether from soap or synthetic detergents. Establishments primarily engaged in manufacturing synthetic perfume and flavoring materials are classified in industry 2869, and essential oils in industry 2899.

285 PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS

2851 **Paints, Varnishes, Lacquers, Enamels, and Allied Products.**—Establishments primarily engaged in manufacturing paints (in paste and ready-mixed form); varnishes; lacquers; enamels and shellac; putties, wood fillers and sealers; paint and varnish removers; and paint brush cleaners and allied paint products. Establishments primarily engaged in manufacturing carbon black are classified in industry 2895; boneblack, lampblack, and inorganic color pigments in industry 2816; organic color pigments in industry 2865; plastics materials in industry 2821; printing ink in industry 2893; calking compounds and sealants in industry 2891; and artists' paints in industry 3952.

286 INDUSTRIAL ORGANIC CHEMICALS

Establishments primarily engaged in manufacturing industrial organic chemicals. Important products of this group include: (1) Noncyclic organic chemicals such as

acetic, chloroacetic, adipic, formic, oxalic and tartaric acids and their metallic salts; chloral, formaldehyde, and methylamine; (2) solvents such as amyl, butyl, and ethyl alcohols; methanol; amyl, butyl and ethyl acetates; ethel ether, ethylene glycol ether and diethylene glycol ether; acetone, carbon disulfide, and chlorinated solvents such as carbon tetrachloride, perchloroethylene and trichloroethylene; (3) polyhydric alcohols such as ethylene glycol, sorbitol, pentaerythritol, synthetic glycerin; (4) synthetic perfume and flavoring materials such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpineol, and synthetic vanillin; (5) rubber processing chemicals such as accelerators and antioxidants, both cyclic and acyclic; (6) plasticizers, both cyclic and acyclic, such as esters of phosphoric acid, phthalic anhydride, adipic acid, lauric acid, oleic acid, sebacic acid, and stearic acid; (7) synthetic tanning agents such as naphthalene sulfonic acid condensates, (8) chemical warfare gases; (9) esters, amines, etc., of polyhydric alcohols and fatty and other acids; (10) cyclic crudes and intermediates; (11) cyclic dyes and organic pigments; and (12) natural gum and wood chemicals. Establishments primarily engaged in manufacturing plastics materials and nonvulcanizable elastomers are classified in industry 2821; synthetic rubber in industry 2822; essential oils in industry 2899; rayon and other synthetic fibers in industries 2823 and 2824; specialty cleaning, polishing and sanitation preparations in industry 2842; paints in industry 2851; and inorganic pigments in industry 2816. Distilleries engaged in the manufacture of grain alcohol for beverage purposes are classified in industry 2085.

2861 **Gum and Wood Chemicals.**—Establishments primarily engaged in manufacturing hardwood and softwood distillation products, wood and gum naval stores, charcoal, natural dyestuffs, and natural tanning materials. Establishments primarily engaged in manufacturing synthetic tanning materials and synthetic organic chemicals are classified in industry 2869, and synthetic organic dyes in industry 2865.

2865 **Cyclic (Coal Tar) Crudes, and Cyclic Intermediates, Dyes, and Organic Pigments (Lakes and Toners).**—Establishments primarily engaged in manufacturing coal tar crudes and cyclic organic intermediates, dyes, color lakes, and toners. Important products of this industry include: (1) Derivatives of benzene, toluene, naphthaline, anthracene, pyridine, carbazole, and other cyclic chemical products; (2) synthetic organic dyes; (3) synthetic organic pigments; and (4) cyclic (coal tar) crudes, such as light oils and light oil products; coal tar acids; and products of medium and heavy oil such as creosote oil, naphthalene, anthracene, and their higher homologues, and tar. Establishments primarily engaged in manufacturing coal tar crudes in chemical recovery ovens are classified in industry 3312, and petroleum refineries which produce such products in industry 2911.

2869 **Industrial Organic Chemicals, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing industrial organic chemicals not elsewhere classified. Important products of this industry include: (1) Noncyclic organic chemicals such as acetic, chloroacetic, adipic, formic, oxalic and tartaric acids and their metallic salts; chloral, formaldehyde and methylamine; (2) solvents such as amyl, butyl, and ethyl alcohols; methanol; amyl, butyl and ethyl acetates; ethel ether, ethylene glycol ether and diethylene glycol ether; acetone, carbon disulfide and chlorinated solvents such as carbon tetrachloride, perchloroethylene and trichloroethylene; (3) polyhydric alcohols such as ethylene glycol, sorbitol, pentaerythritol, synthetic glycerin; (4) synthetic perfume and flavoring materials such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpineol, and synthetic vanillin; (5) rubber processing chemicals such as accelerators and antioxidants, both cyclic and acyclic; (6) plasticizers, both cyclic and acyclic, such as esters of phosphoric acid, phthalic anhydride, adipic acid, lauric acid, oleic acid, sebacic acid, and stearic acid; (7) synthetic tanning agents such as naphthalene sulfonic acid condensates; (8) chemical warfare gases; and (9) esters, amines, etc., of polyhydric alcohols and fatty and other acids. Establishments primarily engaged in manufacturing plastics materials and nonvulcanizable elastomers are classified in industry 2821; synthetic rubber in industry 2822; essential oils in industry 2899; wood distillation products, naval stores, and natural dyeing and tanning materials in industry 2861; rayon and other synthetic fibers in industries 2823 and 2824; specialty cleaning, polishing, and sanitation preparations in industry 2842; paints in industry 2851; urea in industry 2873; organic pigments in industry 2865; and inorganic pigments in industry 2816. Distilleries engaged in the manufacture of grain alcohol for beverage purposes are classified in industry 2085.

287 AGRICULTURAL CHEMICALS

This group includes establishments primarily engaged in manufacturing nitrogenous and phosphatic basic fertilizers, mixed fertilizers, pesticides, and other agricultural chemicals. Establishments primarily engaged in manufacturing basic chemicals which require further processing or formulation before use as agricultural pest-control agents are classified in SIC group 281 or 286.

2873 Nitrogenous Fertilizers.—Establishments primarily engaged in manufacturing nitrogenous fertilizer material or mixed fertilizers from nitrogenous materials produced in the same establishment. Included are ammonia fertilizer compounds and anhydrous ammonia, nitric acid, ammonium nitrate, ammonium sulfate and nitrogen solutions, urea, and natural organic fertilizers (except compost) and mixtures.

2874 Phosphatic Fertilizers.—Establishments primarily engaged in manufacturing phosphatic fertilizer materials or mixed fertilizers from phosphatic materials produced in the same establishment. Included are phosphoric acid; normal, enriched, and concentrated superphosphates; ammonium phosphates; nitrophosphates; and calcium metaphosphates.

2875 Fertilizers, Mixing Only.—Establishments primarily engaged in mixing fertilizers from purchased fertilizer materials.

2879 Pesticides and Agricultural Chemicals, Not Elsewhere Classified.—Establishments primarily engaged in the formulation and preparation of ready-to-use agricultural and household pest-control chemicals, including insecticides, fungicides, and herbicides from technical chemicals or concentrates; and the production of concentrates which require further processing before use as agricultural pesticides. This industry also includes establishments primarily engaged in manufacturing or formulating agricultural chemicals, not elsewhere classified, such as minor or trace elements and soil conditioners. Establishments primarily engaged in manufacturing basic or technical agricultural pest-control chemicals including insecticides, fungicides, and herbicides such as lead and calcium arsenates, and copper sulfate are classified in SIC group 281, and DDT, BHC, 2,4-D carbamates, etc., in SIC group 286. Establishments primarily engaged in manufacturing agricultural lime products are classified in SIC Major Group 32.

289 MISCELLANEOUS CHEMICAL PRODUCTS

2891 Adhesives and Sealants.—Establishments primarily engaged in manufacturing industrial and household adhesives, glues, calking compounds, sealants, and linoleum, tile, and rubber cements from vegetable, animal, or synthetic plastics materials, purchased or produced in the same establishment. Establishments primarily engaged in manufacturing gelatin and sizes are classified in industry 2899, and vegetable gelatin or agar-agar in industry 2833.

2892 Explosives.—Establishments primarily engaged in manufacturing explosives. Establishments primarily engaged in manufacturing ammunition for small arms are classified in industry 3482, and fireworks in industry 2899.

2893 Printing Ink.—Establishments primarily engaged in manufacturing printing ink, gravure ink, screen process ink, and lithographic ink.

2895 Carbon Black.—Establishments primarily engaged in manufacturing carbon black (channel and furnace black).

2899 Chemicals and Chemical Preparations, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing miscellaneous chemical preparations, not elsewhere classified, such as fatty acids, essential oils, gelatin (except vegetable), sizes, bluing, laundry sours, writing and stamp pad inks; industrial compounds, such as boiler and heat insulating compounds, metal, oil and water treating compounds, and waterproofing compounds and chemical supplies for foundries. Establishments primarily engaged in manufacturing vegetable gelatin (agar-agar) are classified in industry 2833; and dessert preparations based on gelatin in industry 2099.

29 PETROLEUM REFINING AND RELATED INDUSTRIES

This major group includes establishments primarily engaged in petroleum refining, manufacturing paving and roofing materials, and compounding lubricating oils and greases from purchased materials. Establishments manufacturing and distributing gas to consumers are classified in public utilities industries, and those primarily engaged in producing coke and byproducts in SIC Major Group 33.

291 PETROLEUM REFINING

2911 Petroleum Refining.—Establishments primarily engaged in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, and other products from crude petroleum and its fractionation products, through straight distillation of crude oil, redistillation of unfinished petroleum derivatives, cracking, or other processes. Establishments primarily engaged in producing natural gasoline from natural gas are classified in mining industries. Those manufacturing lubricating oils and greases by blending and compounding purchased materials are included in industry 2992. Establishments primarily re-refining used lubricating oils are classified in industry 2992.

295 PAVING AND ROOFING MATERIALS

2951 Paving Mixtures and Blocks.—Establishments primarily engaged in manufacturing asphalt and tar paving mixtures; and paving blocks made of asphalt, creosoted wood, and various compositions of asphalt or tar with other materials. Establishments primarily engaged in manufacturing brick, concrete, granite, and stone paving blocks are classified in SIC Major Group 32.

2952 Asphalt Felts and Coatings.—Establishments primarily engaged in manufacturing asphalt and other saturated felts in roll or shingle form, either smooth or faced with grit, and in manufacturing roofing cements and coatings. Establishments primarily engaged in manufacturing paint are classified in industry 2851, and linoleum and tile cement in industry 2891.

299 MISCELLANEOUS PRODUCTS OF PETROLEUM AND COAL

2992 Lubricating Oils and Greases.—Establishments primarily engaged in blending, compounding, and re-refining lubricating oils and greases from purchased mineral, animal, and vegetable materials. Petroleum refineries engaged in the production of lubricating oils and greases are classified in industry 2911.

2999 Products of Petroleum and Coal, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing fuel briquettes, boulets, packaged fuel, powdered fuel, and other products of petroleum and coal not elsewhere classified.

30 RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

This major group includes establishments manufacturing from natural, synthetic, or reclaimed rubber, gutta percha, balata, or gutta siak, rubber products such as tires, rubber footwear, mechanical rubber goods, heels and soles, flooring, and rubber sundries. This group also includes establishments primarily manufacturing tires, but establishments primarily recapping and retreading automobile tires are classified in industry 7534. This group also includes establishments engaged in molding primary plastics for the trade and manufacturing miscellaneous finished plastics products. The manufacture of elastic webbing is classified in SIC Major Group 22; products made of elastic webbing and garments made from rubberized fabrics in SIC Major Group 23; and synthetic rubber in industry 2822.

301 TIRES AND INNER TUBES

3011 Tires and Inner Tubes.—Establishments primarily engaged in manufacturing pneumatic casings, inner tubes, and solid and cushion tires for all types of vehicles, airplanes, farm equipment, and children's vehicles; tiring; and camelback, and tire repair and retreading materials. Establishments primarily engaged in retreading tires are classified in industry 7534.

302 RUBBER AND PLASTICS FOOTWEAR

3021 Rubber and Plastics Footwear.—Establishments primarily engaged in manufacturing all rubber and plastics footwear, waterproof fabric upper footwear, and other fabric upper footwear having rubber or plastic soles vulcanized to the uppers. Establishments primarily engaged in manufacturing rubber, composition, and fiber heels, soles, soling strips, and related shoemaking and repairing materials are classified in industry 3069; plastic soles and soling strips in industry 3079.

303 RECLAIMED RUBBER

3031 Reclaimed Rubber.—Establishments primarily engaged in reclaiming rubber from scrap rubber tires, tubes, and miscellaneous waste rubber articles by processes which result in devulcanized, depolymerized, or regenerated replasticized products containing added ingredients. These products are sold

for use as a raw material in the manufacture of rubber goods with or without admixture with crude rubber or synthetic rubber. Establishments primarily engaged in the assembly and wholesale sale of scrap rubber are classified in trade industries.

304 RUBBER AND PLASTICS HOSE AND BELTING

3041 Rubber and Plastics Hose and Belting.—Establishments primarily engaged in manufacturing rubber and plastics hose and belting, including garden hose. Establishments primarily engaged in manufacturing rubber tubing are classified in industry 3069; plastic tubing in industry 3079; and flexible metallic hose in industry 3599.

306 FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED

3069 Fabricated Rubber Products, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing industrial and mechanical rubber goods, rubberized fabrics, vulcanized rubber clothing, and miscellaneous rubber specialties and sundries. Establishments primarily engaged in rebuilding and retreading tires are classified in industry 7534; and gaskets and packing in industry 3293.

307 MISCELLANEOUS PLASTICS PRODUCTS

3079 Miscellaneous Plastics Products.—Establishments primarily engaged in molding primary plastics for the trade, and fabricating miscellaneous finished plastics products. Establishments primarily engaged in manufacturing fabricated plastics products or plastics film, sheet, rod, nontextile monofilaments and regenerated cellulose products, and vulcanized fiber are classified in this industry, whether from purchased resins or from resins produced in the same plant. Establishments primarily engaged in compounding purchased resins are also classified in this industry. Establishments primarily engaged in manufacturing artificial leather are classified in industry 2295.

31 LEATHER AND LEATHER PRODUCTS

This major group includes establishments engaged in tanning, currying, and finishing hides and skins, and establishments manufacturing finished leather, artificial leather products, and some similar products made of other materials. Leather converters are also included.

311 LEATHER TANNING AND FINISHING

3111 Leather Tanning and Finishing.—Establishments primarily engaged in tanning, currying, and finishing hides and skins into leather. This industry also includes leather converters who buy hides and skins and have them processed into leather on a contract basis by others.

313 BOOT AND SHOE CUT STOCK AND FINDINGS

3131 Boot and Shoe Cut Stock and Findings.—Establishments primarily engaged in manufacturing leather soles, inner soles, and other boot and shoe cut stock and findings. This industry also includes finished wood heels. Establishments primarily engaged in manufacturing heels, soling strips, and soles made of rubber, composition, plastics, and fiber are classified in SIC Major Group 30.

314 FOOTWEAR, EXCEPT RUBBER

3142 House Slippers.—Establishments primarily engaged in manufacturing house slippers of leather or other materials.

3143 Men's Footwear, Except Athletic.—Establishments primarily engaged in the production of men's footwear designed primarily for dress, street, and work. Establishments primarily engaged in the production of such protective footwear as rubbers, rubber boots, storm shoes, galoshes, and other footwear with rubber soles vulcanized to the uppers are classified in industry 3021. Establishments primarily engaged in the production of athletic shoes and youths' and boys' shoes are classified in industry 3149.

3144 Women's Footwear, Except Athletic.—Establishments primarily engaged in the production of women's footwear designed primarily for dress, street, and work. Establishments primarily engaged in the production of athletic shoes and misses', children's, infants', and babies' footwear are classified in industry 3149 Establishments primarily engaged in the production of rubber or plastics footwear are classified in industry 3021.

3149 **Footwear, Except Rubber, Not Elsewhere Classified.**—Establishments primarily engaged in the production of shoes, not elsewhere classified, such as misses', youths', boys', children's, infants', and babies' footwear, and athletic footwear. Establishments primarily engaged in the production of rubber or plastics footwear are classified in industry 3021.

315 LEATHER GLOVES AND MITTENS

3151 **Leather Gloves and Mittens.**—Establishments primarily engaged in manufacturing dress, semidress, and work gloves exclusively of leather or leather with lining of other material. Establishments primarily engaged in manufacturing sporting and athletic gloves are classified in industry 3949; and dress, semidress, and work gloves and mittens of cloth or cloth and leather combined in industry 2381.

316 LUGGAGE

3161 **Luggage.**—Establishments primarily engaged in manufacturing luggage of leather or other materials.

317 HANDBAGS AND OTHER PERSONAL LEATHER GOODS

3171 **Women's Handbags and Purses.**—Establishments primarily engaged in manufacturing women's handbags and purses of leather or other materials, except precious metal (industry 3911).

3172 **Personal Leather Goods, Except Women's Handbags and Purses.**—Establishments primarily engaged in manufacturing small articles, such as billfolds, key cases, and coin purses of leather or other materials, except precious metal (industry 3911).

319 LEATHER GOODS, NOT ELSEWHERE CLASSIFIED

3199 **Leather Goods, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing leather goods, not elsewhere classified, such as saddlery, harness, whips, embossed leather goods, leather desk sets, razor strops, and leather belting. Establishments primarily engaged in manufacturing gaskets and packing are classified in industry 3293.

32 STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

This major group includes establishments engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone, abrasive and asbestos products, etc , from materials taken principally from the earth in the form of stone, clay, and sand. When separate reports are available for mines and quarries operated by manufacturing establishments classified in this major group, the mining and quarrying activities are classified in Division B. When separate reports are not available, the mining and quarrying activities other than those of industry 3295 are classified herein with the manufacturing operations.

If separate reports are not available for crushing, grinding, and other preparation activities of industry 3295, these establishments are classified in Division B.

321 FLAT GLASS

3211 **Flat Glass.**—Establishments primarily engaged in manufacturing flat glass. This industry also produces laminated glass, but establishments primarily engaged in manufacturing laminated glass from purchased flat glass are classified in industry 3231.

322 GLASS AND GLASSWARE, PRESSED OR BLOWN

This group includes establishments primarily engaged in manufacturing glass and glassware, pressed, blown, or shaped from glass produced in the same establishment. Establishments primarily engaged in manufacturing glass products from purchased glass are classified in industry 3231.

3221 **Glass Containers.**—Establishments primarily engaged in manufacturing glass containers for commercial packing and bottling and for home canning.

3229 **Pressed and Blown Glass and Glassware, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing glass and glassware, not elsewhere classified, pressed, blown, or shaped from glass produced in the same establishment. Establishments primarily engaged in manufacturing textile glass fibers are also included in this industry, but establishments primarily engaged in manufacturing glass wool insulation products are classified in industry

3296. Establishments primarily engaged in the production of pressed lenses for vehicular lighting, beacons, and lanterns are also included in this industry, but establishments primarily engaged in the production of optical lenses are classified in industry 3832. Establishments primarily engaged in manufacturing glass containers are classified in industry 3221, and complete electric light bulbs in industry 3641.

323 GLASS PRODUCTS, MADE OF PURCHASED GLASS

3231 Glass Products, Made of Purchased Glass.—Establishments primarily engaged in manufacturing glass products from purchased glass. Establishments primarily engaged in manufacturing optical lenses and ophthalmic lenses are classified in SIC Major Group 38.

324 CEMENT, HYDRAULIC

3241 Cement, Hydraulic.—Establishments primarily engaged in manufacturing hydraulic cement, including portland, natural, masonry, and pozzolan cements.

325 STRUCTURAL CLAY PRODUCTS

3251 Brick and Structural Clay Tile.—Establishments primarily engaged in manufacturing brick and structural clay tile. Establishments primarily engaged in manufacturing clay firebrick are classified in industry 3255, nonclay firebrick in industry 3297, sand lime brick in industry 3299, and glass brick in industry 3229.

3253 Ceramic Wall and Floor Tile.—Establishments primarily engaged in manufacturing ceramic wall and floor tile. Establishments primarily engaged in manufacturing structural clay tile are classified in industry 3251, and drain tile in industry 3259.

3255 Clay Refractories.—Establishments primarily engaged in manufacturing clay firebrick and other heat-resisting clay products. Establishments primarily engaged in manufacturing nonclay refractories, as well as all graphite refractories whether of carbon bond or ceramic bond, are classified in industry 3297.

3259 Structural Clay Products, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing clay sewer pipe and structural clay products not elsewhere classified

326 POTTERY AND RELATED PRODUCTS

3261 Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories.—Establishments primarily engaged in manufacturing china plumbing fixtures and china and earthenware fittings and bathroom accessories.

3262 Vitreous China Table and Kitchen Articles.—Establishments primarily engaged in manufacturing vitreous china table and kitchen articles for use in households and in hotels, restaurants, and other commercial institutions for preparing, serving, or storing food or drink. Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware (whiteware) table and kitchen articles are classified in industry 3263.

3263 Fine Earthenware (Whiteware) Table and Kitchen Articles.—Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware table and kitchen articles for preparing, serving, or storing food or drink. Establishments primarily engaged in manufacturing vitreous china table and kitchen articles are classified in industry 3262.

3264 Porcelain Electrical Supplies.—Establishments primarily engaged in manufacturing porcelain electrical insulators, molded porcelain parts for electrical devices, spark plug and steatitic porcelain, and other electrical supplies from clay and other ceramic materials.

3269 Pottery Products, Not Elsewhere Classified.—Establishments primarily engaged in firing and decorating white china and earthenware for the trade and manufacturing art and ornamental pottery, industrial and laboratory pottery, stoneware and coarse earthenware table and kitchen articles, unglazed red earthenware florists' articles, and other pottery products, not elsewhere classified.

327 CONCRETE, GYPSUM, AND PLASTER PRODUCTS

3271 Concrete Block and Brick.—Establishments primarily engaged in manufacturing concrete building block and brick from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in the construction industries, and establishments primarily engaged in mixing and delivering ready-mixed concrete in industry 3273.

3272 **Concrete Products, Except Block and Brick.**—Establishments primarily engaged in manufacturing concrete products, except block and brick, from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in the construction industries, and establishments primarily engaged in mixing and delivering ready-mixed concrete in industry 3273.

3273 **Ready-Mixed Concrete.**—Establishments primarily engaged in manufacturing portland cement concrete manufactured and delivered to a purchaser in a plastic and unhardened state. This industry includes production and sale of central-mixed concrete, shrink-mixed concrete, and transit-mixed concrete.

3274 **Lime.**—Establishments primarily engaged in manufacturing quicklime, hydrated lime, and "dead-burned" dolomite from limestone, dolomite shells, or other substances.

3275 **Gypsum Products.**—Establishments primarily engaged in manufacturing plaster, plasterboard, and other products composed wholly or chiefly of gypsum.

328 CUT STONE AND STONE PRODUCTS

3281 **Cut Stone and Stone Products.**—Establishments primarily engaged in cutting, shaping, and finishing marble, granite, slate, and other stone for building and miscellaneous uses. Establishments primarily engaged in buying or selling partly finished monuments and tombstones, but performing no work on the stones other than lettering, finishing, or shaping to custom order, are classified in trade industries. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in Division B.

329 ABRASIVE, ASBESTOS, AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS

3291 **Abrasive Products.**—Establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials and other abrasive products. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in mining industries.

3292 **Asbestos Products.**—Establishments primarily engaged in manufacturing asbestos textiles, asbestos building materials, except asbestos paper (industry 2661), insulating materials for covering boilers and pipes, and other commodities composed wholly or chiefly of asbestos. Establishments primarily engaged in manufacturing gaskets and steam and other packing are classified in industry 3293.

3293 **Gaskets, Packing, and Sealing Devices.**—Establishments primarily engaged in manufacturing gaskets, gasketing materials, compression packings, molded packings, oil seals, and mechanical seals. Included are gaskets, packing, and sealing devices made of leather, rubber, metal, asbestos, and plastics.

3295 **Minerals and Earths, Ground or Otherwise Treated.**—Establishments operating without a mine or quarry and primarily engaged in the crushing, grinding, pulverizing, or otherwise preparing clay, ceramic, and refractory minerals; barite, and miscellaneous nonmetallic minerals, except fuels. These minerals are the crude products mined by establishments of SIC groups 145 and 149 and industry 1472. Also included are establishments primarily crushing slag and preparing roofing granules. The beneficiation or preparation of other minerals and metallic ores, and the cleaning and grading of coal, are classified in the mining industries, whether or not the operation is associated with a mine.

3296 **Mineral Wool.**—Establishments primarily engaged in manufacturing mineral wool and mineral wool insulation products made of such siliceous materials as rock, slag, and glass, or combinations thereof. Establishments primarily engaged in manufacturing asbestos insulation products are classified in industry 3292, and textile glass fibers in industry 3229.

3297 **Nonclay Refractories.**—Establishments primarily engaged in manufacturing refractories and crucibles made of materials other than clay. This industry also includes establishments primarily engaged in manufacturing all graphite refractories, whether of carbon bond or ceramic bond. Establishments primarily engaged in manufacturing clay refractories are classified in industry 3255.

3299 **Nonmetallic Mineral Products, Not Elsewhere Classified.**—Establishments primarily engaged in the factory production of statuary and art goods made of plaster of paris and papier mache, and in manufacturing sand lime products and other nonmetallic mineral products not elsewhere classified.

33 PRIMARY METAL INDUSTRIES

This major group includes establishments engaged in the smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and nonferrous metals; in the manufacture of castings and other basic products of ferrous and nonferrous metals; and in the manufacture of nails, spikes, and insulated wire and cable. This major group also includes the production of coke. Establishments primarily engaged in manufacturing metal forgings or stampings are classified in SIC group 346.

331 BLAST FURNACES, STEELWORKS, AND ROLLING AND FINISHING MILLS

3312 Blast Furnaces (Including Coke Ovens), Steelworks, and Rolling Mills.—Establishments primarily engaged in manufacturing hot metal, pig iron, silvery pig iron, and ferroalloys from iron ore and iron and steel scrap; converting pig iron, scrap iron, and scrap steel into steel; and in hot rolling iron and steel into basic shapes such as plates, sheets, strips, rods, bars, and tubing. Merchant blast furnaces and byproduct or beehive coke ovens are also included in this industry. Establishments primarily engaged in manufacturing ferro and nonferrous additive alloys by electrometallurgical processes are classified in industry 3313.

3313 Electrometallurgical Products.—Establishments primarily engaged in manufacturing ferro and nonferrous additive alloys by electrometallurgical or metallothermic processes, including high percentage ferroalloys and high percentage nonferrous additive alloys.

3315 Steel Wiredrawing and Steel Nails and Spikes.—Establishments primarily engaged in drawing wire from purchased iron or steel rods, bars, or wire, and which may be engaged in the further manufacture of products made from wire; establishments primarily engaged in manufacturing steel nails and spikes from purchased materials are also included in this industry. Rolling mills engaged in the production of ferrous wire from wire rods or hot rolled bars produced in the same establishment are classified in industry 3312. Establishments primarily engaged in drawing nonferrous wire are classified in SIC group 335.

3316 Cold Rolled Steel Sheet, Strip, and Bars.—Establishments primarily engaged in (1) cold rolling steel sheets and strip from purchased hot rolled sheets: (2) cold drawing steel bars and steel shapes from purchased hot rolled steel bars; and (3) producing other cold finished steel. Establishments primarily engaged in the production of steel, including hot rolled steel sheets, and further cold rolling such sheets are classified in industry 3312.

3317 Steel Pipe and Tubes.—Establishments primarily engaged in the production of welded or seamless steel pipe and tubes and heavy riveted steel pipe from purchased materials. Establishments primarily engaged in the production of steel, including steel skelp or steel blanks, tube rounds, or pierced billets, are classified in industry 3312.

332 IRON AND STEEL FOUNDRIES

This group includes establishments primarily engaged in manufacturing iron and steel castings. These establishments generally operate on a job or order basis, manufacturing castings for sale to others or for interplant transfer. Establishments which produce iron and steel castings and which are also engaged in fabricating operations, such as machining, assembling, etc., in manufacturing a specified product are classified in the industry of the specified product. Iron and steel castings are made to a considerable extent by establishments classified in other industries, that operate foundry departments for the production of castings for incorporation, in the same establishment, into such products as stoves, furnaces, plumbing fixtures, motor vehicles, etc. Establishments primarily engaged in the manufacture and rolling of steel and also making steel castings are classified in industry 3312. Establishments primarily engaged in manufacturing nonferrous castings are classified in SIC group 336.

3321 Gray Iron Foundries.—Establishments primarily engaged in manufacturing gray iron castings, including cast iron pressure and soil pipes and fittings.

3322 Malleable Iron Foundries.—Establishments primarily engaged in manufacturing malleable iron castings.

3324 Steel Investment Foundries.—Establishments primarily engaged in manufacturing steel investment castings.

3325 **Steel Foundries, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing steel castings not elsewhere classified.

333 PRIMARY SMELTING AND REFINING OF NONFERROUS METALS

3331 **Primary Smelting and Refining of Copper.**—Establishments primarily engaged in smelting copper from the ore, and in refining copper by electrolytic or other processes. Establishments primarily engaged in rolling, drawing, or extruding copper are classified in industry 3351.

3332 **Primary Smelting and Refining of Lead.**—Establishments primarily engaged in smelting lead from the ore and in refining lead by any process. Establishments primarily engaged in rolling, drawing, or extruding lead are classified in industry 3356.

3333 **Primary Smelting and Refining of Zinc.**—Establishments primarily engaged in smelting zinc from the ore and in refining zinc by any process. Establishments primarily engaged in rolling, drawing, or extruding zinc are classified in industry 3356.

3334 **Primary Production of Aluminum.**—Establishments primarily engaged in producing aluminum from aluminua and in refining aluminum by any process. Establishments primarily engaged in rolling, drawing, or extruding aluminum are classified in industries 3353, 3354, and 3355.

3339 **Primary Smelting and Refining of Nonferrous Metals, Not Elsewhere Classified.**—Establishments primarily engaged in smelting and refining nonferrous metals not elsewhere classified. Establishments primarily engaged in rolling, drawing, and extruding these nonferrous primary metals are classified in industry 3356, and the production of bullion at the site of the mine is classified in the mining industries.

334 SECONDARY SMELTING AND REFINING OF NONFERROUS METALS

3341 **Secondary Smelting and Refining of Nonferrous Metals.**—Establishments primarily engaged in recovering nonferrous metals and alloys from new and used scrap and dross. This industry includes establishments engaged in both the recovery and alloying of precious metals. Plants engaged in the recovery of tin through secondary smelting and refining, as well as by chemical processes, are included in this industry. Establishments primarily engaged in assembling, sorting, and breaking up scrap metal, without smelting and refining, are classified in trade industries.

335 ROLLING, DRAWING, AND EXTRUDING OF NONFERROUS METALS

3351 **Rolling, Drawing, and Extruding of Copper.**—Establishments primarily engaged in rolling, drawing, and extruding copper, brass, bronze, and other copper base alloy basic shapes, such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering copper and its alloys from scrap or dross are classified in industry 3341.

3353 **Aluminum Sheet, Plate, and Foil.**—Establishments primarily engaged in flat rolling aluminum and aluminum base alloy basic shapes such as sheet, plate, and foil, including establishments producing welded tube. Also included are establishments primarily producing similar products by continuous casting.

3354 **Aluminum Extruded Products.**—Establishments primarily engaged in extruding aluminum and aluminum base alloy basic shapes such as rod and bar, pipe and tube, and tube blooms, including establishments producing tube by drawing.

3355 **Aluminum Rolling and Drawing, Not Elsewhere Classified.**—Establishments primarily engaged in rolling, drawing, and other operations resulting in the production of aluminum ingot, including extrusion ingot, and aluminum and aluminum base alloy basic shapes, not elsewhere classified, such as rolled and continuous cast rod and bar. Establishments primarily engaged in producing aluminum powder, flake, and paste are classified in industry 3399, and those producing aluminum wire and cable from purchased wire bars, rods, or wire are classified in industry 3357.

3356 **Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum.**—Establishments primarily engaged in rolling, drawing, and extruding nonferrous metals other than copper (industry 3351) and aluminum (industries 3353, 3354, and 3355). The products of this industry are

produced in the form of basic shapes such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering nonferrous metals and alloys from scrap or dross are classified in industry 3341; in manufacturing gold, silver, tin, and other foils except aluminum in industry 3497; and aluminum foil in industry 3353.

3357 Drawing and Insulating of Nonferrous Wire.—Establishments primarily engaged in drawing and insulating, and insulating wire and cable of nonferrous metals from purchased wire bars, rods, or wire.

336 NONFERROUS FOUNDRIES (CASTINGS)

This group includes establishments primarily engaged in manufacturing castings and die castings of aluminum, brass, bronze and other nonferrous metals and alloys. These establishments generally operate on a job or order basis, manufacturing castings for sale to others or for interplant transfer. Establishments which produce nonferrous castings and which are also engaged in fabricating operations, such as machining, assembling, etc., in manufacturing a specified product are classified in the industry of the specified product. Nonferrous castings are made to a considerable extent by establishments classified in other industries that operate foundry departments for the production of castings for incorporation, in the same establishment, into such products as machinery, motor vehicles, etc. Establishments primarily engaged in manufacturing iron and steel castings are classified in SIC group 332.

3361 Aluminum Foundries (Castings).—Establishments primarily engaged in manufacturing castings and die castings of aluminum and aluminum-base alloys.

3362 Brass, Bronze, Copper, Copper Base Alloy Foundries (Castings).—Establishments primarily engaged in manufacturing castings and die castings of copper and copper-base alloys.

3369 Nonferrous Foundries (Castings), Not Elsewhere Classified.—Establishments primarily engaged in manufacturing castings and die castings of nonferrous materials except aluminum, copper, and copper base alloys.

339 MISCELLANEOUS PRIMARY METAL PRODUCTS

3398 Metal Heat Treating.—Establishments primarily engaged in heat treating of metal for the trade.

3399 Primary Metal Products, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing primary metal products, not elsewhere classified, such as nonferrous nails, brads, and spikes; and metal powder, flakes, and paste.

34 FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

This major group includes establishments engaged in fabricating ferrous and nonferrous metal products such as metal cans, tinware, handtools, cutlery, general hardware, nonelectric heating apparatus, fabricated structural metal products, metal forgings, metal stampings, ordnance (except vehicles and guided missiles), and a variety of metal and wire products not elsewhere classified. Certain important segments of the metal fabricating industries are classified in other major groups such as machinery in SIC Major Groups 35 and 36; transportation equipment, including tanks, in SIC Major Group 37; professional scientific and controlling instruments, watches, and clocks in SIC Major Group 38; and jewelry and silverware in SIC Major Group 39. Establishments primarily engaged in producing ferrous and nonferrous metals and their alloys are classified in SIC Major Group 33.

341 METAL CANS AND SHIPPING CONTAINERS

3411 Metal Cans.—Establishments primarily engaged in manufacturing metal cans from purchased materials. Establishments primarily engaged in manufacturing foil containers are classified in industry 3497.

3412 Metal Shipping Barrels, Drums, Kegs, and Pails.—Establishments primarily engaged in manufacturing ferrous and nonferrous metal shipping barrels, drums, kegs, and pails.

342 CUTLERY, HANDTOOLS, AND GENERAL HARDWARE

3421 Cutlery.—Establishments primarily engaged in manufacturing cutlery. Establishments primarily engaged in manufacturing table cutlery made entirely of metal are classified in industry 3914; those manufacturing electric razors in industry 3634; and those manufacturing hair clippers for human use in industry 3999, and for animal use in industry 3523.

3423 **Hand and Edge Tools, Except Machine Tools and Handsaws.**—Establishments primarily engaged in manufacturing files and other hand and edge tools for metalworking, woodworking, and general maintenance. Establishments primarily engaged in manufacturing saws are classified in industry 3425; and metal-cutting dies, power-driven handtools, and attachments and accessories for machine tools in SIC Major Group 35.

3425 **Handsaws and Saw Blades.**—Establishments primarily engaged in manufacturing handsaws and saw blades for hand and power-driven saws. Establishments primarily engaged in manufacturing power-driven sawing machines are classified in SIC Major Group 35.

3429 **Hardware, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing miscellaneous metal products usually termed "hardware," not elsewhere classified. Establishments primarily engaged in manufacturing bolts and nuts are classified in industry 3452, nails and spikes in SIC Major Group 33, cutlery in industry 3421, handtools in industry 3423, and pole line and transmission hardware in SIC Major Group 36.

343 HEATING EQUIPMENT, EXCEPT ELECTRIC AND WARM AIR; AND PLUMBING FIXTURES

3431 **Enameled Iron and Metal Sanitary Ware.**—Establishments primarily engaged in manufacturing enameled iron, cast iron, or pressed metal sanitary ware. Establishments primarily engaged in manufacturing vitreous and semivitreous pottery sanitary ware are classified in industry 3261; and those manufacturing porcelain enameled kitchen, household, and hospital ware in industry 3469.

3432 **Plumbing Fixture Fittings and Trim (Brass Goods).**—Establishments primarily engaged in manufacturing plumbing fixture fittings and trim (brass goods). Establishments primarily engaged in the manufacture of steam or water line valves are classified in industry 3494.

3433 **Heating Equipment, Except Electric and Warm Air Furnaces.**—Establishments primarily engaged in manufacturing heating equipment, except electric and warm air furnaces, including gas, oil, and stoker coal-fired equipment for the automatic utilization of gaseous, liquid, and solid fuels. Establishments primarily engaged in manufacturing warm air furnaces are classified in industry 3585; cooking stoves and ranges in industry 3631; boiler shops primarily engaged in the production of industrial, power and marine boilers in industry 3443; and industrial process furnaces and ovens in industry 3567.

344 FABRICATED STRUCTURAL METAL PRODUCTS

3441 **Fabricated Structural Metal.**—Establishments primarily engaged in manufacturing fabricated iron and steel or other metal for structural purposes, such as bridges, buildings, and sections for ships, boats, and barges. Establishments primarily engaged in manufacturing metal doors, sash, frames, molding, and trim are classified in industry 3442; and establishments doing fabrication work at the site of construction are classified in Division C.

3442 **Metal Doors, Sash, Frames, Molding, and Trim.**—Establishments primarily engaged in manufacturing ferrous and nonferrous metal and metal covered doors and sash, window and door frames and screens, molding, and trim.

3443 **Fabricated Platework (Boiler Shops).**—Establishments primarily engaged in manufacturing power and marine boilers, pressure and nonpressure tanks, processing and storage vessels, heat exchangers, weldments, and similar products by the process of cutting, forming, and joining metal plates, shapes, bars, sheet, pipe mill products, and tubing to custom or standard design for factory or field assembly. Establishments primarily engaged in manufacturing warm air heating furnaces are classified in industry 3585, other nonelectric heating apparatus except power boilers in industry 3433, and household cooking apparatus in industry 3631.

3444 **Sheet Metalwork.**—Establishments primarily engaged in manufacturing sheet metalwork for buildings (not including fabrication work done by construction contractors at the place of construction), and manufacturing sheet metal stovepipes, light tanks, etc.

3446 **Architectural and Ornamental Metalwork.**—Establishments primarily engaged in manufacturing architectural and ornamental metalwork of ferrous and nonferrous metals, such as stairs and staircases, open

steel flooring (grating), fire escapes, grilles, railings, and fences and gates, except those made from wire. Establishments primarily engaged in manufacturing prefabricated and portable metal buildings and parts are classified in industry 3448, and miscellaneous metalwork in industry 3449.

3448 **Prefabricated Metal Buildings and Components.**—Establishments primarily engaged in manufacturing prefabricated and portable metal buildings and parts, and prefabricated exterior metal panels.

3449 **Miscellaneous Metalwork.**—Establishments primarily engaged in manufacturing miscellaneous ferrous and nonferrous metalwork, such as metal plaster bases, fabricated bar joists, and concrete reinforcing bars.

345 SCREW MACHINE PRODUCTS, AND BOLTS, NUTS, SCREWS, RIVETS, AND WASHERS

3451 **Screw Machine Products.**—Establishments primarily engaged in manufacturing automatic or hand screw machine products from rod, bar, or tube stock of metal, fiber, plastics, or other material. The products of this industry consist of a wide variety of unassembled parts and are usually manufactured on a job or order basis. Establishments primarily engaged in manufacturing standard bolts, nuts, rivets, screws, and other industrial fasteners on headers, threaders, and nut forming machines are classified in industry 3452.

3452 **Bolts, Nuts, Screws, Rivets, and Washers.**—Establishments primarily engaged in manufacturing bolts, nuts, screws, rivets, washers, formed and threaded wire goods, and special industrial fasteners. Rolling mills engaged in manufacturing similar products are classified in SIC Major Group 33, and establishments primarily engaged in manufacturing screw machine products in industry 3451.

346 METAL FORGINGS AND STAMPINGS

This group includes establishments primarily engaged in manufacturing metal forgings or metal stampings. These establishments generally operate on a job or order basis, manufacturing metal stampings or forgings for sale to others or for interplant transfer. Establishments which produce metal stampings or forgings for incorporation in end products produced in the same establishment are classified on the basis of the end product.

3462 **Iron and Steel Forgings.**—Establishments primarily engaged in manufacturing iron and steel forgings, with or without the use of dies.

3463 **Nonferrous Forgings.**—Establishments primarily engaged in manufacturing nonferrous forgings, with or without the use of dies.

3465 **Automotive Stampings.**—Establishments primarily engaged in manufacturing automotive stampings such as body parts, hubs, and trim.

3466 **Crowns and Closures.**—Establishments primarily engaged in manufacturing metal crowns and closures.

3469 **Metal Stampings, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing metal stampings and spun products, not elsewhere classified, including porcelain enameled products such as household appliance housings and parts; utensils and consumer stamped and spun products such as cooking and kitchen utensils; and other nonautomotive job stampings.

347 COATING, ENGRAVING, AND ALLIED SERVICES

3471 **Electroplating, Plating, Polishing, Anodizing, and Coloring.**—Establishments primarily engaged in all types of electroplating, plating, anodizing, coloring, and finishing of metals and formed products for the trade. Most of the work done in this industry is done on materials owned by others.

3479 **Coating, Engraving, and Allied Services, Not Elsewhere Classified.**—Establishments primarily engaged in performing the following types of services on metals: (1) Enameling, lacquering, and varnishing metal products for the trade; (2) hot-dip galvanizing of mill sheets, plates and bars, castings, and formed products fabricated of iron and steel; hot-dip coating such items with aluminum, lead, or zinc; retinning cans and utensils; (3) engraving, chasing and etching jewelry, silverware, notarial and other seals, and other metal products for the trade and for job contracting for purposes other than printing; and (4) other metal services, not elsewhere classified. Establishments primarily engaged in electroplating, plating, polishing, anodizing, coloring, and finishing of metals and formed products for the trade are classified in industry 3471; and those producing porcelain enameled products in industry 3469.

348 ORDNANCE AND ACCESSORIES, EXCEPT VEHICLES AND GUIDED MISSILES

3482 Small Arms Ammunition.—Establishments primarily engaged in manufacturing ammunition for small arms having a bore of 30 mm (or 1.18 inch) and below. Establishments primarily engaged in manufacturing ammunition except for small arms are classified in industry 3483, blasting and detonating caps and safety fuses in industry 2892, and fireworks in industry 2899.

3483 Ammunition, Except for Small Arms, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing ammunition, not elsewhere classified, or in loading and assembling ammunition over 30 mm (or over 1.18 inch) for naval, aircraft, antiaircraft, tank, coast, and field artillery; including component parts. This industry also includes establishments primarily engaged in manufacturing bombs, mines, torpedoes, grenades, depth charges, chemical warfare projectiles, and their component parts. Establishments primarily engaged in manufacturing small arms ammunition are classified in industry 3482, explosives in industry 2892, and military pyrotechnics in industry 2899.

3484 Small Arms.—Establishments primarily engaged in manufacturing small firearms having a bore 30 mm (or 1.18 inch) and below, and parts for small firearms. Also included in this industry are establishments primarily engaged in manufacturing certain weapons over 30 mm which are carried and employed by the individual, such as grenade launchers and heavy field machine guns. Establishments primarily engaged in manufacturing artillery and mortars having a bore over 30 mm (or over 1.18 inch) and component parts are classified in industry 3489.

3489 Ordnance and Accessories, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing ordnance and accessories, not elsewhere classified, such as naval, aircraft, antiaircraft, tank, coast, and field artillery having a bore over 30 mm (or over 1.18 inch) and components. Establishments primarily engaged in manufacturing small arms and parts 30 mm (or 1.18 inch) and below are classified in industry 3484; tanks in industry 3795; and guided missiles in SIC group 376.

349 MISCELLANEOUS FABRICATED METAL PRODUCTS

3493 Steel Springs, Except Wire.—Establishments primarily engaged in manufacturing leaf springs, hot wound springs, and coiled flat springs. Establishments primarily engaged in manufacturing wire springs are classified in industry 3495.

3494 Valves and Pipe Fittings, Except Plumbers' Brass Goods.—Establishments primarily engaged in manufacturing pipe fittings and valves for controlling the flow of liquids or gases in pipes and mains, and for machinery. Establishments primarily engaged in manufacturing faucets, spigots, and similar plumbers' brass goods and fittings are classified in industry 3432, flexible metal hose and tubing in industry 3599, and fittings and couplings for garden hose in industry 3429.

3495 Wire Springs.—Establishments primarily engaged in manufacturing wire springs. Establishments primarily engaged in assembling wire bedsprings or seats are classified in SIC Major Group 25.

3496 Miscellaneous Fabricated Wire Products.—Establishments primarily engaged in manufacturing miscellaneous fabricated wire products from purchased wire, such as noninsulated wire rope and cable; fencing; screening, netting, paper machine wire cloth; and hangers, paper clips, kitchenware, and wire carts. Rolling mills engaged in manufacturing wire products are classified in SIC Major Group 33; establishments manufacturing nonferrous wire nails and spikes in industry 3399; those drawing and insulating nonferrous wire in industry 3357; and those manufacturing wire springs in industry 3495.

3497 Metal Foil and Leaf.—Establishments primarily engaged in manufacturing gold, silver, tin, and other metal foil (including converted metal foil) and leaf. Also included are establishments primarily engaged in converting metal foil (including aluminum) into wrappers, cookware, dinnerware, and containers, except bags and liners. Establishments primarily engaged in manufacturing plain aluminum foil are classified in industry 3353.

3498 Fabricated Pipe and Fabricated Pipe Fittings.—Establishments primarily engaged in fabricating pipe and pipe fittings from purchased pipe, by cutting,

threading, bending, etc. Establishments primarily engaged in manufacturing cast iron pipe and fittings, including cast and forged pipe fittings which have been machined and threaded, are classified in industry 3321; and welded and heavy riveted pipe and seamless steel pipe in industry 3317. Establishments primarily engaged in manufacturing products such as bannisters, railings, and guards from pipe are classified in industry 3446.

3499 **Fabricated Metal Products, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing fabricated metal products, not elsewhere classified, such as fire or burglary resistive steel safes and vaults and similar fire or burglary resistive products; and collapsible tubes of thin flexible metal. Also included are establishments primarily engaged in manufacturing metal boxes, metal ladders, and metal household articles such as ice cream freezers and ironing boards. Establishments primarily engaged in manufacturing concrete grave vaults are classified in industry 3722, and metal grave vaults in industry 3995. Establishments primarily engaged in manufacturing advertising novelties are classified in industry 3993.

35 MACHINERY, EXCEPT ELECTRICAL

This major group includes establishments engaged in manufacturing machinery and equipment other than electrical equipment (SIC Major Group 36) and transportation equipment (SIC Major Group 37). Machines powered by built-in or detachable motors are ordinarily included in this major group, with the exception of electrical household appliances (SIC Major Group 36). Portable tools, both electric and pneumatic powered, are included in this major group, but handtools are classified in SIC Major Group 34.

351 ENGINES AND TURBINES

3511 **Steam, Gas, and Hydraulic Turbine Generator Set Units.**—Establishments primarily engaged in manufacturing steam turbines; hydraulic turbines; gas turbines, except aircraft; complete steam, gas, and hydraulic turbine generator set units; and steam engines. Establishments primarily engaged in building or rebuilding locomotives are classified in industry 3743; and those manufacturing nonautomotive type generators which are not part of a turbine generator set in industry 3621.

3519 **Internal Combustion Engines, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing diesel, semi-diesel, or other internal combustion engines, not elsewhere classified, for stationary, marine, traction, and other uses. Establishments primarily engaged in manufacturing aircraft engines are classified in industry 3724; automotive engines (except diesel) in industry 3714; engine generator sets in industry 3621; and guided missile and space vehicle propulsion units in industry 3764.

352 FARM AND GARDEN MACHINERY AND EQUIPMENT

3523 **Farm Machinery and Equipment.**—Establishments primarily engaged in manufacturing farm machinery and equipment, including wheel tractors, for use in the preparation and maintenance of the soil; planting and harvesting of the crop; preparing crops for market, on the farm; or for use in performing other farm operations and processes. Establishments primarily engaged in manufacturing industrial trucks, tractors, and trailers used for handling materials in industrial plants, depots, and docks are classified in industry 3537; contractors' off-highway tractors are classified in industry 3531; farm handtools in SIC group 342; and garden tractors, lawn mowers and other lawn and garden equipment in industry 3524.

3524 **Garden Tractors and Lawn and Garden Equipment.**—Establishments primarily engaged in manufacturing lawn mowers, garden tractors, and other lawn and garden equipment used for home lawn and garden care. Also included are establishments primarily manufacturing snow blowers and throwers for residential use. Establishments primarily engaged in manufacturing farm machinery and equipment are classified in industry 3523; hand lawn and garden shears and pruners in industry 3421; and other garden handtools in industry 3423.

353 CONSTRUCTION, MINING, AND MATERIALS HANDLING MACHINERY AND EQUIPMENT

3531 **Construction Machinery and Equipment.**—Establishments primarily engaged in manufacturing heavy machinery and equipment used by the construction industries, such as bulldozers; concrete mixers; cranes, except industrial plant type; dredging machinery; pavers; and power shovels. Establish-

ments primarily engaged in manufacturing mining equipment are classified in industry 3532, and well-drilling machinery in industry 3533.

3532 **Mining Machinery and Equipment, Except Oilfield Machinery and Equipment.**—Establishments primarily engaged in manufacturing heavy machinery and equipment used by the mining industries, such as coal breakers, mine cars, mineral cleaning machinery, concentration machinery, core drills, coal cutters, portable rock drills, and rock crushing machinery. Establishments primarily engaged in manufacturing construction machinery are classified in industry 3531; well-drilling machinery in industry 3533; and coal and ore conveyors in industry 3535.

3533 **Oilfield Machinery and Equipment.**—Establishments primarily engaged in manufacturing machinery and equipment for use in oil and gas fields or for drilling water wells.

3534 **Elevators and Moving Stairways.**—Establishments primarily engaged in manufacturing passenger or freight elevators, automobile lifts, dumbwaiters, and moving stairways. Establishments primarily engaged in manufacturing commercial conveyor systems and equipment are classified in industry 3535, and farm elevators in industry 3523.

3535 **Conveyors and Conveying Equipment.**—Establishments primarily engaged in manufacturing conveyors and conveying equipment for installation in factories, warehouses, mines, and other industrial and commercial establishments. Establishments primarily engaged in manufacturing passenger or freight elevators, dumbwaiters, and moving stairways are classified in industry 3534; and overhead traveling cranes and monorail systems in industry 3536.

3536 **Hoists, Industrial Cranes, and Monorail Systems.**—Establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems for installation in factories, warehouses, and other industrial and commercial establishments.

3537 **Industrial Trucks, Tractors, Trailers, and Stackers.**—Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, stackers (truck type), and related equipment, used for handling materials on floors and paved surfaces in and around industrial and commercial plants, depots, docks, and terminals. Establishments primarily engaged in manufacturing motor vehicles and motor vehicle type trailers are classified in SIC group 371; farm-type wheel tractors in industry 3523; wheel tractor shovel loaders and tracklaying tractors in industry 3531; and wood pallets and skids in industry 2448.

354 METALWORKING MACHINERY AND EQUIPMENT

3541 **Machine Tools, Metal-Cutting Types.**—Establishments primarily engaged in manufacturing machines, not supported in the hands of an operator when in use, that shape metal by cutting or use of electrical techniques; the rebuilding of such machine tools; and the manufacture of replacement parts for them. Metalworking, or primarily metalworking, machine tools designed primarily for home workshops are also included. Establishments primarily engaged in the manufacture of electric welding equipment are classified in industry 3623; portable power-driven handtools in industry 3546; and gas welding and cutting equipment and automotive maintenance equipment in industry 3549.

3542 **Machine Tools, Metal-Forming Types.**—Establishments primarily engaged in manufacturing machines, not supported in the hands of an operator while in use, for pressing, hammering, extruding, shearing, die-casting, or otherwise forming metal into shape. This industry also includes rebuilding such machine tools and manufacturing repair parts for them. Establishments primarily engaged in the manufacture of electric welding equipment are classified in industry 3623; portable power-driven handtools in industry 3546; rolling mill machinery and equipment in industry 3547; and gas welding and cutting equipment and automotive maintenance equipment in industry 3549.

3544 **Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds.**—Establishments commonly known as contract tool and die shops and primarily engaged in manufacturing, on a job or order basis, special tools and fixtures for use with machine tools, hammers, die-casting machines, and presses. The products of establishments classified in this industry include a wide variety of special toolings, such as dies; punches; die sets and components and subpresses; jigs and fixtures; and special checking devices. Establishments primarily engaged in manufacturing molds for die casting and foundry casting; metal molds for plasterworking, rubber working,

plastic working, glassworking and similar machinery are also included. Establishments primarily engaged in manufacturing molds for heavy steel ingots are classified in industry 3321.

3545 Machine Tool Accessories and Measuring Devices.—Establishments primarily engaged in manufacturing cutting tools, machinist's precision measuring tools, and attachments and accessories for machine tools and for other metalworking machinery not elsewhere classified. Establishments primarily engaged in manufacturing handtools, except power-driven types, are classified in SIC group 342.

3546 Power-Driven Handtools.—Establishments primarily engaged in manufacturing power-driven handtools, such as drills and drilling tools, pneumatic and snagging grinders, and electric hammers. Establishments primarily engaged in manufacturing automotive maintenance equipment are classified in industry 3549; those primarily manufacturing machine tools for metal cutting and metal forming (including home workshop tools) which are not supported in the hands of an operator, are classified in industries 3541 and 3542; and those primarily manufacturing power-driven heavy construction or mining handtools in SIC group 353.

3547 Rolling Mill Machinery and Equipment.—Establishments primarily engaged in manufacturing rolling mill machinery and processing equipment for metal production such as cold forming mills, structural mills, and finishing equipment.

3549 Metalworking Machinery, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing metalworking machinery, not elsewhere classified, such as gas cutting and welding equipment, wire fabricating machinery and equipment, except wire-drawing dies, and automotive maintenance machinery and equipment. Establishments primarily engaged in manufacturing metal-cutting machine tools are classified in industry 3541; metal-forming machine tools in industry 3542; power-driven handtools in industry 3546; and rolling mill machinery in industry 3547.

355 SPECIAL INDUSTRY MACHINERY, EXCEPT METALWORKING MACHINERY

3551 Food Products Machinery.—Establishments primarily engaged in manufacturing machinery for use by the food products and beverage manufacturing industries in the preparation, canning, or packaging of food products; and parts and attachments for such machinery. Establishments primarily engaged in manufacturing industrial refrigeration machinery are classified in SIC group 358.

3552 Textile Machinery.—Establishments primarily engaged in manufacturing machinery for the textile industries, including parts, attachments, and accessories. Establishments primarily engaged in manufacturing domestic or industrial sewing machines are classified in industry 3636.

3553 Woodworking Machinery.—Establishments primarily engaged in manufacturing machinery for sawmills, planing mills, cabinet and furniture makers, patternmakers, and veneer workers. Establishments primarily engaged in manufacturing handtools such as planes, axes, drawknives, and handsaws are classified in SIC group 342; and portable power-driven handtools in industry 3546.

3554 Paper Industries Machinery.—Establishments primarily engaged in manufacturing machinery for the pulp, paper, and paper product industries. Establishments primarily engaged in manufacturing printing trades machinery are classified in industry 3555.

3555 Printing Trades Machinery and Equipment.—Establishments primarily engaged in manufacturing machinery and equipment used by the printing and bookbinding trades. Establishments primarily engaged in manufacturing textile printing machinery are classified in industry 3552.

3559 Special Industry Machinery, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing special industry machinery, not elsewhere classified, such as smelting and refining equipment, cementmaking, clayworking, cotton ginning, glassmaking, hatmaking, incandescent lampmaking, leatherworking, paintmaking, rubberworking, cigar and cigarette making, tobacco working, shoemaking, and stoneworking machinery.

356 GENERAL INDUSTRIAL MACHINERY AND EQUIPMENT

3561 Pumps and Pumping Equipment.—Establishments primarily engaged in manufacturing pumps and pumping equipment for general industrial use. Establish-

ments primarily engaged in manufacturing measuring and dispensing pumps for gasoline service station use are classified in industry 3586; and air and gas compressors in industry 3563.

3562 **Ball and Roller Bearings.**—Establishments primarily engaged in manufacturing ball and roller bearings (including ball or roller bearing pillow block, flange, take-up cartridge, and hanger units) and parts. Establishments primarily engaged in manufacturing bearings, except ball and roller, are classified in industry 3568.

3563 **Air and Gas Compressors.**—Establishments primarily engaged in manufacturing air and gas compressors for general industrial use. Establishments primarily engaged in manufacturing refrigeration compressors and compressing units are classified in industry 3585; and pumps and pumping equipment in industry 3561.

3564 **Blowers and Exhaust and Ventilation Fans.**—Establishments primarily engaged in manufacturing industrial and commercial blowers, industrial and commercial exhaust and ventilating fans, and attic fans. Establishments primarily engaged in manufacturing air-conditioning units are classified in industry 3585, and free air-circulating fans for use on desks, pedestals, or wall brackets as well as household window-type fans and roll-abouts, kitchen and household ventilating and exhaust fans in industry 3634.

3565 **Industrial Patterns.**—Establishments primarily engaged in manufacturing industrial patterns.

3566 **Speed Changers, Industrial High Speed Drives, and Gears.**—Establishments primarily engaged in manufacturing speed changers, industrial high-speed drives, and gears. Establishments primarily engaged in manufacturing these items for motor vehicles are classified in industry 3714, and for aircraft in industry 3728.

3567 **Industrial Process Furnaces and Ovens.**—Establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and dielectric heating equipment, and related devices.

3568 **Mechanical Power Transmission Equipment, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing mechanical power transmission equipment and parts for industrial machinery. Establishments primarily engaged in manufacturing automotive, tank, and tractor power transmission equipment are classified in industry 3714; aircraft power transmission equipment in industry 3728; ball and roller bearings in industry 3562; and speed changers, industrial high speed drives, and gears in industry 3566.

3569 **General Industrial Machinery and Equipment, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing machinery, equipment, and components for general industrial use, and for which no special classification is provided. Machine shops primarily engaged in producing machine and equipment parts, usually on a job or order basis, are classified in industry 3599.

357 OFFICE, COMPUTING, AND ACCOUNTING MACHINES

3572 and 3579 **Typewriters and Office Machines, Not Elsewhere Classified.**—The Typewriters Industry includes establishments primarily engaged in manufacturing typewriters and parts, including coded media typewriters and specialized composing typewriters. This industry is combined with the Office Machines, N.E.C., Industry which includes establishments primarily engaged in manufacturing office machines and devices not elsewhere classified. Establishments primarily engaged in manufacturing computing machines are classified in industry 3573, cash registers in industry 3574, and photocopy and microfilm equipment in industry 3861 (Photographic Equipment and Supplies).

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for these industries as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system. However, it was necessary to combine industry 3572, Typewriters, with industry 3579, Office Machines, N.E.C., to avoid disclosing the operation of individual companies.

3573 **Electronic Computing Equipment.**—Establishments primarily engaged in manufacturing electronic computers and peripheral equipment and/or major

logical components intended for use in electronic computer systems. Included are general-purpose electronic analog computers, electronic digital computers, military, ruggedized, and special purpose computers. The electronic computers may be used for data processing or may be incorporated as components of control equipment for industrial use, and as components of equipment used in weapons and weapons systems, space and oceanographic exploration, and transportation and other systems. Electronic computer systems contain high-speed arithmetic and program control units, on-line information storage devices, input/output equipment, terminals, data communication devices, and punched card equipment. Examples of input/output equipment are converters (card and/or tape) and readers and printers. Examples of storage devices are magnetic drums and disks magnetic cores and magnetic film memories. In addition to providing technical manuals necessary for the operation and maintenance of the equipment, establishments in this industry usually furnish general-purpose computer programs and basic operating systems programs needed for effective use of the computer system. Establishments primarily producing rebuilt electronic computers are also included in this industry. Establishments primarily engaged in manufacturing desk calculators, cash registers, accounting machines and similar equipment that are operator-paced are classified in industry 3574; electrical and electronic test equipment in industry 3825; industrial controls, including electronic, in industry 3622; and industrial process instruments in industry 3823.

3574 **Calculating and Accounting Machines, Except Electronic Computing Equipment.**—Establishments primarily engaged in manufacturing desk calculators, adding and accounting machines, cash registers, and similar equipment. Included are electronic calculating and accounting machines which, even when augmented by attachments or which include program control or have input/output capabilities, must be paced by operator intervention. Establishments primarily engaged in manufacturing electronic computing equipment are classified in industry 3573; typewriters in industry 3572; and office duplicating machines and devices, autographic registers, and other office machines in industry 3579.

3576 **Scales and Balances, Except Laboratory.**—Establishments primarily engaged in manufacturing weighing and force measuring machines and devices of all types, except those regarded as scientific apparatus for laboratory and experimental work, which are classified in industry 3811.

3579 **Typewriters and Office Machines, Not Elsewhere Classified.**—(See 3572.)

358 REFRIGERATION AND SERVICE INDUSTRY MACHINERY

3581 **Automatic Merchandising Machines.**—Establishments primarily engaged in manufacturing automatic merchandising units, also referred to as vending machines (excluding music, amusement, or gaming machines), and coin-operated mechanisms for such machines.

3582 **Commercial Laundry, Dry Cleaning, and Pressing Machines.**—Establishments primarily engaged in manufacturing laundry and dry cleaning equipment and pressing machines for commercial and industrial use. Establishments primarily engaged in manufacturing household laundry equipment, including coin-operated washers and driers, are classified in industry 3633.

3585 **Air-Conditioning and Warm-Air Heating Equipment and Commercial and Industrial Refrigeration Equipment.**—Establishments primarily engaged in manufacturing refrigeration equipment and systems and similar equipment for commercial and industrial use; complete air-conditioning units for domestic, commercial, and industrial use; and warm-air furnaces, except electric. Establishments primarily engaged in manufacturing soda fountains and beer dispensing equipment and humidifiers and dehumidifiers, except for rooms, are also classified in this industry. Establishments primarily engaged in manufacturing household refrigerators and home and farm freezers are classified in industry 3632; electric air space heaters in industry 3634; and electric warm-air furnaces and other electric comfort heating equipment in industry 3699.

3586 **Measuring and Dispensing Pumps.**—Establishments primarily engaged in manufacturing measuring and dispensing pumps commonly used in service and filling stations for dispensing gasoline, oil, and grease, including grease guns. Establishments primarily engaged in manufacturing pumps and pumping equipment for general industrial use are classified in industry 3561.

3589 **Service Industry Machines, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing machines and equipment, not elsewhere classified, for use in service industries, such as floor sanding machines, industrial vacuum cleaners, scrubbing machines, commercial cooking and food warming equipment, and commercial dishwashing machines. Establishments primarily engaged in manufacturing household electrical appliances are classified in group 363.

359 MISCELLANEOUS MACHINERY, EXCEPT ELECTRICAL

3592 **Carburetors, Pistons, Piston Rings, and Valves.**—Establishments primarily engaged in manufacturing carburetors, pistons, piston rings, and valves. Establishments primarily engaged in manufacturing metallic packing are classified in industry 3293; and those primarily engaged in manufacturing machine repair and equipment parts (except electric), on a job or order basis for others, are classified in industry 3599.

3599 **Machinery, Except Electrical, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing machinery and parts except electrical, not elsewhere classified, such as amusement park equipment, pneumatic and hydraulic cylinders, and flexible metal hose and tubing. This industry also includes establishments primarily engaged in producing or repairing machine and equipment parts, not elsewhere classified, on a job or order basis for others.

36 ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT, AND SUPPLIES

This major group includes establishments engaged in manufacturing machinery, apparatus, and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. The manufacture of household appliances is included in this group, but industrial machinery and equipment powered by built-in or detachable electric motors is classified in SIC Major Group 35. Establishments primarily engaged in manufacturing instruments for indicating, measuring, and recording electrical quantities are classified in industry 3825.

361 ELECTRIC TRANSMISSION AND DISTRIBUTION EQUIPMENT

3612 **Power, Distribution, and Specialty Transformers.**—Establishments primarily engaged in manufacturing power, distribution, instrument, and specialty transformers. Establishments primarily engaged in manufacturing radio frequency or voice frequency transformers, coils, or chokes are classified in industry 3677, and resistance welder transformers in industry 3623.

3613 **Switchgear and Switchboard Apparatus.**—Establishments primarily engaged in manufacturing switchgear and switchboard apparatus. Important products of this industry include power switches, circuit breakers, power switching equipment, and similar switchgear for general industrial application; switchboards and cubicles, control and metering panels, power fuse mountings, and similar switchboard apparatus and supplies. Establishments primarily engaged in manufacturing industrial controls are classified in industry 3622, and those manufacturing current-carrying wiring devices in industry 3643.

362 ELECTRICAL INDUSTRIAL APPARATUS

3621 **Motors and Generators.**—Establishments primarily engaged in manufacturing electric motors (except starting motors) and power generators; motor generator sets; railway motors and control equipment; and motors, generators, and control equipment for gasoline, electric, and oil-electric buses and trucks. Establishments primarily engaged in manufacturing turbo-generators are classified in industry 3511, and starting motors and battery charging generators for internal combustion engines in industry 3694.

3622 **Industrial Controls.**—Establishments primarily engaged in manufacturing motor starters and controllers; control accessories, electronic controls, and other industrial controls. Establishments primarily engaged in manufacturing automatic temperature controls are classified in industry 3822, and industrial process instruments in industry 3823.

3623 **Welding Apparatus, Electric.**—Establishments primarily engaged in manufacturing electric welding apparatus and accessories. Establishments primarily engaged in coating welding wire from purchased wire or from wire drawn in the same establishment are also included. Establishments primarily engaged

in manufacturing gas welding apparatus are classified in industry 3549, and laser, electron beam, and ultrasonic welding machines and equipment in industry 3662.

3624 **Carbon and Graphite Products.**—Establishments primarily engaged in manufacturing lighting carbons; carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; and other carbon, graphite, and metal-graphite products.

3629 **Electrical Industrial Apparatus, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing industrial and commercial electric apparatus and equipment, not elsewhere classified, such as blasting machines, and fixed and variable capacitors, condensers, and rectifiers for industrial applications. Establishments primarily engaged in manufacturing condensers, capacitors, and rectifiers for electronic end products are classified in SIC group 367.

363 HOUSEHOLD APPLIANCES

3631 **Household Cooking Equipment.**—Establishments primarily engaged in manufacturing household cooking equipment, such as stoves, ranges, and ovens, including both electric and nonelectric types. Establishments primarily engaged in manufacturing household cooking appliances, such as hot plates, grills, percolators, and toasters, are classified in industry 3634. Establishments primarily engaged in manufacturing commercial cooking equipment are classified in industry 3589.

3632 **Household Refrigerators and Home and Farm Freezers.**—Establishments primarily engaged in manufacturing household refrigerators and home and farm freezers. Establishments primarily engaged in manufacturing commercial and industrial refrigeration equipment, packaged room coolers, and all refrigeration compressor and condenser units are classified in industry 3585, and room dehumidifiers are classified in industry 3634.

3633 **Household Laundry Equipment.**—Establishments primarily engaged in manufacturing laundry equipment, such as washing machines, wringers, driers, and ironers, for household use. This industry also includes coin-operated washers and driers. Establishments primarily engaged in manufacturing commercial laundry equipment are classified in industry 3582.

3634 **Electric Housewares and Fans.**—Establishments primarily engaged in manufacturing electric housewares for heating, cooking, and other purposes; and electric fans, including ventilating and exhaust household-type fans. Important products of this industry include electric air heaters, electrically heated bed coverings, blenders, broilers, deep-fat fryers, flat irons, food mixers, hot plates, percolators and coffeemakers, roasters, toasters, desk and bracket fans, hassock or floor fans, window-type propeller fans, roll-about fans and household and kitchen ventilating and exhaust fans. Establishments primarily engaged in manufacturing industrial and commercial blowers, industrial and commercial exhaust and ventilating fans, and attic fans are classified in industry 3564.

3635 **Household Vacuum Cleaners.**—Establishments primarily engaged in manufacturing vacuum cleaners for household use. Establishments primarily engaged in manufacturing vacuum cleaners for industrial use are classified in industry 3589, and built-in vacuum cleaner systems in industry 1796.

3636 **Sewing Machines.**—Establishments primarily engaged in manufacturing sewing machines for domestic and industrial use.

3639 **Household Appliances, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing household appliances, not elsewhere classified, such as water heaters, dishwashers, and food waste disposal units.

364 ELECTRIC LIGHTING AND WIRING EQUIPMENT

3641 **Electric Lamps.**—Establishments primarily engaged in manufacturing electric bulbs, tubes, and related light sources. Important products of this industry include incandescent filament lamps, vapor and fluorescent lamps, photoflash and photoflood lamps, electrotherapeutic lamp units for ultra-violet and infra-red radiation, and other electric light sources. Establishments primarily engaged in manufacturing glass blanks for bulbs are classified in industry 3229; and lamp components, such as supports, filaments, lead-in wires, and cold cathode fluorescent lamp electrodes, in industry 3699.

3643 **Current-Carrying Wiring Devices.**—Establishments primarily engaged in manufacturing current-carrying wiring devices. Important products of this industry include attachment plugs and caps, convenience outlets, lamp sockets and receptacles, snap switches, conductor connectors, overhead trolley line material, rail bonds for both propulsion and signal circuits, lightning arrestors, and other lightning protective equipment.

3644 **Noncurrent-Carrying Wiring Devices.**—Establishments primarily engaged in manufacturing noncurrent-carrying wiring devices. Important products of this industry include conduits and fittings; electrical insulators and insulation materials, except porcelain insulators (industry 3264) and glass insulators (industry 3229); outlet, switch and fuse boxes; and pole line hardware.

3645 **Residential Electric Lighting Fixtures.**—Establishments primarily engaged in manufacturing residential electric lighting fixtures and equipment, fixed or portable. Establishments primarily engaged in producing glassware for lighting fixtures are classified in SIC Major Group 32; electric light bulbs, tubes, and related light sources in industry 3641; lampshades except glass and metal in industry 3999, and nonelectric fixtures and portable electric flashlights, lanterns, and similar lamps in industry 3648.

3646 **Commercial, Industrial, and Institutional Electric Lighting Fixtures.**—Establishments primarily engaged in manufacturing commercial, industrial, and institutional electric lighting fixtures. Establishments primarily engaged in producing glassware for lighting fixtures are classified in SIC Major Group 32; residential lighting fixtures in industry 3645; and vehicular lighting fixtures in industry 3647.

3647 **Vehicular Lighting Equipment.**—Establishments primarily engaged in manufacturing vehicular lighting equipment.

3648 **Lighting Equipment, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing lighting fixtures and equipment, electric and nonelectric, not elsewhere classified, including flashlights and similar portable lamps, searchlights, ultraviolet lamp fixtures, and infra-red lamp fixtures. Establishments primarily engaged in manufacturing electric light bulbs, tubes, and related light sources are classified in industry 3641, and those producing glassware for lighting fixtures are classified in SIC Major Group 32.

365 RADIO AND TELEVISION RECEIVING EQUIPMENT, EXCEPT COMMUNICATION TYPES

3651 **Radio and Television Receiving Sets, Except Communication Types.**—Establishments primarily engaged in manufacturing electronic equipment for home entertainment, including auto radios and tape players. This industry also includes establishments primarily engaged in manufacturing public address systems and music distribution apparatus. Establishments primarily engaged in manufacturing phonograph records and prerecorded tape are classified in industry 3652. Establishments primarily engaged in manufacturing separate cabinets for home electronic equipment are classified in SIC Major Group 25.

3652 **Phonograph Records and Prerecorded Magnetic Tape.**—Establishments primarily engaged in manufacturing phonograph records and prerecorded magnetic tape. Establishments primarily engaged in manufacturing electronic equipment for home entertainment, except records and prerecorded magnetic tape, are classified in industry 3651.

366 COMMUNICATION EQUIPMENT

3661 **Telephone and Telegraph Apparatus.**—Establishments primarily engaged in manufacturing wire telephone and telegraph equipment and parts especially designed for telephone and telegraph use.

3662 **Radio and Television Transmitting, Signaling, and Detection Equipment and Apparatus.**—Establishments primarily engaged in manufacturing (1) radio and television broadcasting equipment; (2) electric communication equipment and parts, except telephone and telegraph; (3) electronic field detection apparatus, light and heat emission operating apparatus, object detection apparatus and navigational electronic equipment, and aircraft and missile control systems; (4) high-energy particle accelerator systems and equipment designed and sold as a complete package for radiation therapy, irradiation, radiographic inspection, and research (linear accelerators, betatrons, dynamotrons, Vandergraff generators, resonant transformers, insulating core transformers, etc.); (5) high-energy particle electronic equipment and accessories sold separately for the construction of linear accelerators, cyclotrons, synchrotrons, and other high-energy research installations (transmitters/modulators, accelerating wave-

guide structures, pulsed electron guns, vacuum systems, cooling systems, etc.); and (6) other electric and electronic communication and signaling products not elsewhere classified. Establishments primarily engaged in manufacturing transmitting tubes are classified in industry 3673.

367 ELECTRONIC COMPONENTS AND ACCESSORIES

3671 Radio and Television Receiving-Type Electron Tubes, Except Cathode Ray.—Establishments primarily engaged in manufacturing radio and television receiving-type electron tubes, except cathode ray tubes. Establishments primarily engaged in manufacturing television receiving-type cathode ray tubes are classified in industry 3672; transmitting tubes in industry 3673; and X-ray tubes in industry 3693.

3672 Cathode Ray Television Picture Tubes.—Establishments primarily engaged in manufacturing television receiving-type cathode ray tubes. Establishments primarily engaged in manufacturing other radio and television receiving-type electron tubes are classified in industry 3671; and transmitting tubes in industry 3673.

3673 Transmitting, Industrial, and Special Purpose Electron Tubes.—Establishments primarily engaged in manufacturing transmitting, industrial, and special purpose electron tubes. Establishments primarily engaged in manufacturing radio and television receiving tubes are classified in industry 3671; television receiving-type cathode ray tubes in industry 3672; and X-ray tubes in industry 3693.

3674 Semiconductors and Related Devices.—Establishments primarily engaged in manufacturing semiconductor and related solid state devices, such as semiconductor diodes and stacks, including rectifiers, integrated microcircuits (semiconductor networks), transistors, solar cells, and light sensing and emitting semiconductor (solid state) devices.

3675 Electronic Capacitors.—Establishments primarily engaged in manufacturing electronic capacitors.

3676 Resistors, for Electronic Applications.—Establishments primarily engaged in manufacturing resistors for electronic end products. Establishments primarily engaged in manufacturing resistors for telephone and telegraph apparatus are classified in industry 3661.

3677 Electronic Coils, Transformers, and Other Inductors.—Establishments primarily engaged in manufacturing electronic coils, transformers, and inductors. Establishments primarily engaged in manufacturing transformers and inductors for telephone and telegraph apparatus are classified in industry 3661; electric lamps in industry 3641; and semiconductor (solid state) and related devices in industry 3674.

3678 Connectors, for Electronic Applications.—Establishments primarily engaged in manufacturing electronic connectors. Establishments primarily engaged in manufacturing electronic capacitors are classified in industry 3675; and electronic coils, transformers, and other inductors in industry 3677.

3679 Electronic Components, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing electronic components, not elsewhere classified, such as receiving antennas, printed circuits, switches, and wave guides.

369 MISCELLANEOUS ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES

3691 Storage Batteries.—Establishments primarily engaged in manufacturing storage batteries.

3692 Primary Batteries, Dry and Wet.—Establishments primarily engaged in manufacturing primary batteries, dry or wet.

3693 Radiographic X-ray, Fluoroscopic X-ray, Therapeutic X-ray, and Other X-ray Apparatus and Tubes; Electromedical and Electrotherapeutic Apparatus.—Establishments primarily engaged in manufacturing radiographic X-ray, fluoroscopic X-ray, and therapeutic X-ray apparatus and tubes for medical, industrial, research and control applications. This industry also includes establishments primarily engaged in manufacturing electromedical and electrotherapeutic apparatus except electrotherapeutic lamp units for ultra-violet and infra-red radiation (industry 3641). Establishments primarily engaged in manufacturing radio receiving-type tubes are classified in industry 3671; television receiving cathode ray tubes in industry 3672; and transmitting tubes in industry 3673.

3694 Electrical Equipment for Internal Combustion Engines.—Establishments primarily engaged in manufacturing electrical equipment for internal combustion engines. Important products of this industry

include armatures, starting motors, alternators, and generators for automobiles and aircraft; and ignition apparatus for internal combustion engines, including spark plugs, magnetos, coils, and distributors.

3699 **Electrical Machinery, Equipment, and Supplies, Not Elsewhere Classified.**—Establishments primarily in manufacturing electrical machinery, equipment, and supplies, not elsewhere classified, such as appliance and extension cords, bells and chimes, and insect traps.

37 TRANSPORTATION EQUIPMENT

This major group includes establishments engaged in manufacturing equipment for transportation of passengers and cargo by land, air, and water. Important products produced by establishments classified in this major group include motor vehicles, aircraft, guided missiles and space vehicles, ships, boats, railroad equipment, and miscellaneous transportation equipment such as motorcycles, bicycles, and snowmobiles. Establishments primarily engaged in manufacturing mobile homes are classified in industry 2451.

371 MOTOR VEHICLES AND MOTOR VEHICLE EQUIPMENT

3711 **Motor Vehicles and Car Bodies.**—This industry comprises establishments primarily engaged in the manufacture of passenger cars, passenger car bodies, trucks, buses, and wheeled combat vehicles. Complete car chassis and complete truck chassis, with or without cab, are also included in this industry. Establishments primarily engaged in the manufacture of trucks or buses on purchased chassis are classified in industry 3713; tanks, self-propelled weapons, and other military vehicles in industry 3795; and motor homes produced on purchased chassis in industry 3716.

3713 **Truck and Bus Bodies.**—Establishments primarily engaged in manufacturing truck and bus bodies for sale separately or for assembly on purchased chassis. Establishments primarily engaged in manufacturing complete trucks and buses are classified in industry 3711, stamped body parts for trucks and buses in industry 3465, and truck trailers and demountable cargo containers in industry 3715.

3714 **Motor Vehicle Parts and Accessories.**—Establishments primarily engaged in manufacturing motor vehicle parts and accessories, but not engaged in manufacturing complete motor vehicles or passenger car bodies. Establishments primarily engaged in manufacturing or assembling complete automobiles and trucks are classified in industry 3711, tires and tubes in industry 3011, automobile glass in SIC Major Group 32, automobile stampings in industry 3465, ignition systems in industry 3694, storage batteries in industry 3691, and carburetors, pistons, rings, and valves in industry 3592.

3715 **Truck Trailers.**—Establishments primarily engaged in manufacturing truck trailers, truck trailer chassis for sale separately, detachable trailer bodies (cargo containers) for sale separately, and detachable trailer (cargo container) chasis for sale separately.

3716 **Motor Homes Produced on Purchased Chassis.**—This industry comprises establishments primarily engaged in the manufacture of motor homes produced on purchased chassis. Establishments primarily engaged in the manufacture of motor homes produced on chassis of own manufacture are classified in industry 3711.

The Motor Homes Produced on Purchased Chassis is included for the first time in the 1977 census.

372 AIRCRAFT AND PARTS

3721 **Aircraft.**—Establishments primarily engaged in manufacturing or assembling complete aircraft. This industry also includes establishments primarily engaged in research and development on aircraft or in factory-type aircraft modification on a contract or fee basis. Establishments primarily engaged in manufacturing engines, propellers, and other aircraft parts and auxiliary equipment are classified in industries 3724 and 3728; and those producing guided missiles and space vehicles and parts are classified in SIC group 376.

3724 **Aircraft Engines and Engine Parts.**—Establishments primarily engaged in manufacturing aircraft engines and engine parts. Research and development on aircraft engines is included in this industry. Establishments primarily engaged in manufacturing guided missile and space vehicle propulsion units and parts are classified in industry 3764.

3728 **Aircraft Parts and Auxiliary Equipment, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing aircraft parts and auxiliary equip-

ment not elsewhere classified. Research and development on aircraft parts is included in this industry. Establishments primarily engaged in manufacturing or assembling complete aircraft are classified in industry 3721, aircraft engines and parts in industry 3724, aeronautical instruments in industry 3811, aeronautical electrical equipment in industry 3694, and guided missile and space vehicle parts and auxiliary equipment in industry 3769.

373 SHIP AND BOAT BUILDING AND REPAIRING

3731 Ship Building and Repairing.—Establishments primarily engaged in building and repairing all types of ships, barges, and lighters, whether propelled by sail or motor power or towed by other craft. This industry also includes the conversion and alteration of ships. Establishments primarily engaged in fabricating structural assemblies or components for ships, or subcontractors engaged in ship painting, joinery, carpentry work, electrical wiring installation, etc., are classified in other industries.

3732 Boat Building and Repairing.—Establishments primarily engaged in building and repairing all types of boats. Establishments primarily engaged in cleaning and storing boats and in the rental of dock space and yacht clubs are classified in nonmanufacturing industries. Establishments primarily engaged in manufacturing rubber and nonrigid plastic boats are classified in SIC Major Group 30.

374 RAILROAD EQUIPMENT

3743 Railroad Equipment.—Establishments primarily engaged in building and rebuilding locomotives (including frames and parts not elsewhere classified) of any type or gage; and railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service. This industry also includes establishments primarily engaged in manufacturing trackless trolley buses. Establishments primarily engaged in manufacturing mining cars are classified in industry 3532. Repair shops, owned and operated by railroads or local transit companies, rebuilding or repairing locomotives or cars, or building new locomotives or cars for their own account, are classified in SIC Major Groups 40 and 41.

375 MOTORCYCLES, BICYCLES, AND PARTS

3751 Motorcycles, Bicycles, and Parts.—Establishments primarily engaged in manufacturing motorcycles, bicycles, and similar equipment and parts. Establishments primarily engaged in assembling motorcycles or bicycles from purchased parts are also included in this industry. Establishments primarily engaged in manufacturing children's vehicles, except bicycles, are classified in industry 3944. Establishments primarily engaged in manufacturing golf carts and other similar personnel carriers are classified in industry 3799.

376 GUIDED MISSILES AND SPACE VEHICLES AND PARTS

3761 Guided Missiles and Space Vehicles.—Establishments primarily engaged in manufacturing complete guided missiles and space vehicles. Research and development and other services on or for guided missiles and space vehicles are included in this industry. Establishments primarily engaged in manufacturing guided missile and space vehicle propulsion units and propulsion unit parts are classified in industry 3764; space satellite and guided missile and space vehicle airborne and ground guidance, checkout, and launch electronic systems and components in industry 3662; and guided missile and space vehicle airframes, nose cones, and space capsules in industry 3769.

3764 Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts.—Establishments primarily engaged in manufacturing guided missile propulsion units and propulsion unit parts. Research and development on guided missile and space vehicle propulsion units and propulsion unit parts is also included in this industry.

3769 Guided Missile and Space Vehicle Parts and Auxiliary Equipment, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing guided missile and space vehicle parts and auxiliary equipment not elsewhere classified. Research and development on guided missile and space vehicle parts and auxiliary equipment, not elsewhere classified, is also included in this industry. Establishments primarily engaged in manufacturing navigational and guidance systems are classified in industry 3662.

379 MISCELLANEOUS TRANSPORTATION EQUIPMENT

3792 **Travel Trailers and Campers.**—Establishments primarily engaged in manufacturing travel trailers for attachment to passenger cars or other vehicles, pickup coaches (campers) or caps (covers) for mounting on pickup trucks and self-contained motor homes. Travel trailers are generally 35 feet long or less, 8 feet wide or less, and have storage facilities for water and waste. Establishments primarily engaged in manufacturing mobile homes are classified in industry 2451.

3795 **Tanks and Tank Components.**—Establishments primarily engaged in manufacturing or assembling complete tanks and specialized components for tanks. Establishments primarily engaged in manufacturing military vehicles other than tanks are classified in SIC group 371, and tank engines in industry 3519.

3799 **Transportation Equipment, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing transportation equipment not elsewhere classified. Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers are classified in industry 3537, and children's vehicles except bicycles in industry 3944.

38 MEASURING, ANALYZING, AND CONTROLLING INSTRUMENTS; PHOTOGRAPHIC, MEDICAL, AND OPTICAL GOODS; WATCHES AND CLOCKS

This major group includes establishments engaged in manufacturing instruments (including professional and scientific) for measuring, testing, analyzing, and controlling, and their associated sensors and accessories; optical instruments and lenses; surveying and drafting instruments; surgical, medical, and dental instruments, equipment, and supplies; opthalmic goods; photographic equipment and supplies; and watches and clocks.

381 ENGINEERING, LABORATORY, SCIENTIFIC, AND RESEARCH INSTRUMENTS AND ASSOCIATED EQUIPMENT

3811 **Engineering, Laboratory, Scientific, and Research Instruments and Associated Equipment.**—Establishments primarily engaged in manufacturing engineering, laboratory, and scientific instruments, including nautical, navigational, aeronautical, surveying, and drafting equipment and instruments for laboratory work and scientific research (except optical instruments—industry 3832). Establishments primarily engaged in manufacturing surgical and medical instruments are classified in industry 3841; dental instruments and equipment in industry 3843; measuring, analyzing, and controlling instruments, including instruments for measuring electrical quantities and characteristics, in SIC group 382; watches and clocks in industry 3873; machinists' precision measuring tools in industry 3545; and measuring and dispensing pumps in industry 3586.

382 MEASURING AND CONTROLLING INSTRUMENTS

3822 **Automatic Controls for Regulating Residential and Commercial Environments and Appliances.**—Establishments primarily engaged in manufacturing temperature and related controls for heating and air-conditioning installations and refrigeration applications, which are electrically, electronically, or pneumatically actuated, and which measure and control variables such as temperature and humidity; and automatic regulators used as components of household appliances. Establishments primarily engaged in manufacturing industrial process controls are classified in industry 3823; motor control switches in industry 3622, switches for household appliances in industry 3643, and appliance timers in industry 3873.

3823 **Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products.**—Establishments primarily engaged in manufacturing industrial instruments and related products for measuring, displaying (indicating and/or recording), transmitting, and controlling process variables in manufacturing, energy conversion, and public service utilities. These instruments operate mechanically, pneumatically, electronically, or electrically to measure process variables such as temperature, humidity, pressure, vacuum, combustion, flow, level, viscosity, density, acidity, alkalinity, specific gravity, gas and liquid concentration, sequence, time interval, mechanical motion, and rotation. Establishments primarily engaged in manufacturing electrical integrating meters are classified in industry 3825; residential and commercial comfort controls in industry 3822; all liquid-in-glass and bimetal thermometers and glass hydrometers in industry 3829; recorder charts in SIC group 275, and optical instruments in industry 3832.

3824 **Totalizing Fluid Meters and Counting Devices.**—Establishments primarily engaged in manufacturing totalizing (registering) meters, monitoring fluid flows, such as watermeters and gasmeters; and producers of mechanical and electromechanical counters and associated metering devices. Establishments primarily engaged in manufacturing electricity integrating meters and electronic frequency counters are classified in industry 3825; and industrial process instruments in industry 3823.

3825 **Instruments for Measuring and Testing of Electricity and Electrical Signals.**—Establishments primarily engaged in manufacturing instruments for measuring the characteristics of electricity and electrical signals, such as voltmeters, ammeters, watt-meters, watt-hour meters, demand meters, and equipment for testing the electrical characteristics of electrical, radio, and communication circuits and of internal combustion engines. Establishments primarily engaged in the manufacturing of electronic checkout, monitoring, evaluating, and other electronic support equipment for electronic navigational, radar, sonar, and other communications systems are classified in industry 3662.

3829 **Measuring and Controlling Devices, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing measuring and controlling devices, not elsewhere classified, including testing instruments to determine the physical properties of materials, nuclear instruments, aircraft engine instruments, and liquid-in-glass and bimetal thermometers.

383 OPTICAL INSTRUMENTS AND LENSES

3832 **Optical Instruments and Lenses.**—Establishments primarily engaged in manufacturing instruments that measure an optical property; apparatus, except photographic, that projects or magnifies, such as binoculars, prisms, and lenses; optical sighting and fire control equipment; and related analytical instruments. Establishments primarily engaged in manufacturing eyeglass lenses, frames, or fittings are classified in industry 3851; separate computers in industry 3573; and electronic tracking and fire control systems in industry 3662.

384 SURGICAL, MEDICAL, AND DENTAL INSTRUMENTS AND SUPPLIES

3841 **Surgical and Medical Instruments and Apparatus.**—Establishments primarily engaged in manufacturing medical, surgical, ophthalmic, and veterinary instruments and apparatus. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in industry 3842; and electrotherapeutic, electromedical, and X-ray apparatus in industry 3693.

3842 **Orthopedic, Prosthetic, and Surgical Appliances and Supplies.**—Establishments primarily engaged in manufacturing orthopedic, prosthetic, and surgical appliances and supplies, arch supports, and other foot appliances; fracture appliances, elastic hosiery, abdominal supporters, braces, and trusses; bandages; surgical gauze and dressings; sutures; adhesive tapes and medicated plasters; and personal safety appliances and equipment. Establishments primarily engaged in manufacturing surgical and medical instruments are classified in industry 3841. Establishments primarily engaged in manufacturing appliances and in the personal fitting to the individual prescription of a physician are classified in trade industries.

3843 **Dental Equipment and Supplies.**—Establishments primarily engaged in manufacturing artificial teeth, dental metals, alloys and amalgams, and a wide variety of equipment, instruments, and supplies used by dentists, dental laboratories, and dental colleges. Dental laboratories constructing artificial dentures, bridges, inlays, and other dental restorations on specifications from dentists are classified in industry 8072.

385 OPHTHALMIC GOODS

3851 **Ophthalmic Goods.**—Establishments primarily engaged in manufacturing opthalmic frames, lenses, and sunglass lenses. Establishments primarily engaged in manufacturing slit lamps are classified in industry 3841, and molded glass blanks in industry 3229. Establishments primarily engaged in grinding lenses and fitting glasses to prescription are classified in trade.

386 PHOTOGRAPHIC EQUIPMENT AND SUPPLIES

3861 **Photographic Equipment and Supplies.**—Establishments primarily engaged in manufacturing (1) photographic apparatus, equipment, parts, attachments, and accessories, such as still and motion

picture cameras and projection apparatus; photocopy and microfilm equipment; blueprinting and diazotype (white printing) apparatus and equipment; and other photographic equipment; and (2) sensitized film, paper, cloth, plates, and prepared photographic chemicals for use therewith. Establishments primarily engaged in manufacturing photographic paper stock (unsensitized), and paper mats, mounts, easels, and folders for photographic use are classified in SIC Major Group 26; photographic lenses in industry 3832; photographic glass in SIC Major Group 32; chemicals for technical purposes, not specifically prepared and packaged for use in photography, in SIC Major Group 28; and photographic flash, flood enlarger, and projection lamps in industry 3641.

387 WATCHES, CLOCKS, CLOCKWORK OPERATED DEVICES, AND PARTS

3873 **Watches, Clocks, Clockwork Operated Devices, and Parts.**—Establishments primarily engaged in manufacturing clocks (including electric), watches, watchcases, mechanisms for clockwork operated devices, and clock and watch parts. This industry includes establishments primarily engaged in assembling clocks and watches from purchased movements and cases. Establishments primarily engaged in manufacturing time clocks are classified in industry 3579, glass crystals in industry 3231, and unbreakable crystals in industry 3079.

39 MISCELLANEOUS MANUFACTURING INDUSTRIES

This major group includes establishments primarily engaged in manufacturing products not classified in any other manufacturing group. Industries in this group fall into the following categories: Jewelry, silverware and plated ware; musical instruments; toys, sporting and athletic goods; pens, pencils, and other office and artists' materials; buttons, costume novelties, miscellaneous notions; brooms and brushes; caskets; and other miscellaneous manufacturing industries.

391 JEWELRY, SILVERWARE, AND PLATED WARE

3911 **Jewelry, Precious Metal.**—Establishments primarily engaged in manufacturing jewelry and other articles worn on or carried about the person, made of precious metals with or without stones (including the setting of stones where used), including cigarette cases and lighters, vanity cases and compacts; trimmings for umbrellas and canes; and jewel settings and mountings. Establishments primarily engaged in manufacturing costume jewelry from nonprecious metals and other materials are classified in industry 3961.

3914 **Silverware, Plated Ware, and Stainless Steel Ware.**—Establishments primarily engaged in manufacturing flatware (including knives, forks, and spoons), hollowware, toiletware, ecclesiastical ware, and related products made of sterling silver; of metal plated with silver, gold, or other metal; of nickel silver; of pewter; or of stainless steel.

3915 **Jewelers' Findings and Materials and Lapidary Work.**—Establishments primarily engaged in manufacturing unassembled jewelry parts, and stock shop products such as sheet, wire, and tubing; and establishments of lapidaries primarily engaged in cutting, slabbing, tumbling, carving, engraving, polishing, or faceting stones from natural or manmade precious or semiprecious gem raw materials, either for sale or on a contract basis for the trade; in recutting, repolishing, and setting gem stones; or in cutting, drilling, and otherwise preparing jewels for instruments, dies, watches, chronometers, and other industrial uses. This industry includes the drilling, sawing, and peeling of real or cultured pearls, but does not include the manufacture of artificial pearls (industry 3961).

393 MUSICAL INSTRUMENTS

3931 **Musical Instruments.**—Establishments primarily engaged in manufacturing pianos, with or without player attachments; organs; other musical instruments; and parts and accessories for musical instruments.

394 TOYS AND AMUSEMENT, SPORTING, AND ATHLETIC GOODS

3942 **Dolls.**—Establishments primarily engaged in manufacturing dolls, doll parts; and doll clothing. Establishments primarily engaged in manufacturing stuffed toy animals are also included in this industry.

3944 **Games, Toys, and Children's Vehicles; Except Dolls and Bicycles.**—Establishments primarily engaged in manufacturing games and game sets for adults and children, and mechanical and nonmechanical toys. Important products of this industry include games such as chess, checkers, dominoes, puzzles, and other indoor games; and toys, such as toy furniture, doll carriages and carts, construction sets, mechanical trains, toy guns and air rifles, and other mechanical games and toys; baby carriages and strollers; children's velocipedes and tricycles, coaster wagons, play cars, sleds, and other children's outdoor wheel goods and vehicles, except bicycles (industry 3751). Establishments primarily engaged in manufacturing dolls are classified in industry 3942; and sporting and athletic goods for children and adults in industry 3949.

3949 **Sporting and Athletic Goods, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing sporting and athletic goods, not elsewhere classified, such as fishing tackle; golf and tennis goods; baseball, football, basketball, and boxing equipment; roller skates and ice skates; gymnasium and playground equipment; billiard and pool tables; and bowling alleys and equipment. Establishments primarily engaged in manufacturing athletic apparel are classified in SIC Major Group 23, small arms ammunition in industry 3482, and firearms in industry 3484.

395 PENS, PENCILS, AND OTHER OFFICE AND ARTISTS' MATERIALS

3951 **Pens, Mechanical Pencils, and Parts.**—Establishments primarily engaged in manufacturing pens, pen points, fountain pens, ballpoint pens, refill cartridges, porous-tipped felt tip markers, and parts.

3952 **Lead Pencils, Crayons, and Artists' Materials.**—Establishments primarily engaged in manufacturing lead pencils, pencil leads, and crayons; and materials and equipment for artwork, such as airbrushes, drawing tables and boards, palettes, sketch boxes, pantographs, artists' colors and waxes, pyrography goods, drawing inks, and drafting materials. Establishments primarily engaged in manufacturing mechanical pencils are classified in industry 3951, and drafting instruments in industry 3811.

3953 **Marking Devices.**—Establishments primarily engaged in manufacturing rubber and metal hand stamps, dies, and seals; steel letters and figures; and stencils for use in painting or marking. Establishments primarily engaged in manufacturing felt tip markers are classified in industry 3951.

3955 **Carbon Paper and Inked Ribbons.**—Establishments primarily engaged in manufacturing carbon paper for business machines, sales books, etc.; spirit or gelatin process and other stencil paper; and inked or carbon ribbons for business machines.

396 COSTUME JEWELRY, COSTUME NOVELTIES, BUTTONS, AND MISCELLANEOUS NOTIONS, EXCEPT PRECIOUS METAL

3961 **Costume Jewelry and Costume Novelties, Except Precious Metal.**—Establishments primarily engaged in manufacturing costume jewelry, costume novelties, and ornaments made of all materials, except precious metal, precious or semiprecious stones, and rolled gold plate and gold filled materials (industry 3911).

3962 **Feathers, Plumes, and Artificial Trees and Flowers.**—Establishments primarily engaged in manufacturing artificial trees (including Christmas trees), flowers, fruits, and foliage made from all materials except glass; in producing fancy feathers, plumes, and articles made principally of feathers and plumes. Establishments primarily engaged in manufacturing artificial flowers, fruits, and foliage from glass are classified in industry 3231.

3963 **Buttons.**—Establishments primarily engaged in manufacturing buttons, button parts, and button blanks and molds, of all materials except precious metal and precious or semiprecious stones (industry 3911).

3964 **Needles, Pins, Hooks and Eyes, and Similar Notions.**—Establishments primarily engaged in manufacturing notions, such as machine and hand needles, pins, hooks and eyes, eyelets, buckles, and slide and snap fasteners.

399 MISCELLANEOUS MANUFACTURING INDUSTRIES

3991 **Brooms and Brushes.**—Establishments primarily engaged in manufacturing household, industrial, and street sweeping brooms; and brushes, such as paintbrushes, toothbrushes, toilet brushes, and household and industrial brushes.

3993 **Signs and Advertising Displays.**—Establishments primarily engaged in manufacturing electrical, mechanical, cutout, or plate signs and advertising displays, including neon signs and advertising novelties. Sign painting shops doing business on a custom basis are classified in industry 7399. Establishments primarily engaged in manufacturing electric signal equipment are classified in industry 3662, and commercial lighting fixtures in industry 3646.

3995 **Burial Caskets.**—Establishments primarily engaged in manufacturing burial caskets and cases including shipping cases of wood or other material except concrete. Establishments primarily engaged in producing other goods for use by morticians are classified on the basis of the product, such as burial garments in SIC Major Group 23.

3996 **Linoleum, Asphalted-Felt-Base, and Other Hard-Surface Floor Coverings, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing linoleum, asphalted-felt-base, and other hard-surface floor coverings not elsewhere classified. Establishments primarily engaged in manufacturing rubber floor coverings are classified in industry 3069, and cork floor and wall tile in industry 2499.

3999 **Manufacturing Industries, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing miscellaneous fabricated products, including beauty shop and barbershop equipment; hairwork; tobacco pipes and cigarette holders; coin-operated amusement machines; matches; candles; lampshades; dressed and dyed furs; umbrellas; parasols and canes; and other articles not elsewhere classified.

APPENDIX D. Reporting Forms

This appendix contains reproductions of a representative selection of reporting forms used in the 1977 economic censuses, with emphasis on the census of manufactures.

These forms are described in section 7 of the Introduction.

DUE DATE: February 15, 1978

Form Approved: O.M.B. No. 41-R2751

FORM NC-X1 (Items 1–4)
(4-27-77)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 ECONOMIC CENSUSES

REPORT OF ORGANIZATION

NOTICE – Response to this inquiry is **required by law (title 13, U.S. Code).** By the same law, your report to the Census Bureau is **confidential.** It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are **immune from legal process**

Refer to this CENSUS FILE NUMBER in any correspondence pertaining to this report

CENSUS USE ONLY	Unit No.	Item code	Unit No.	Item code	Unit No.	Item code

(Please correct any errors in name and address including ZIP code)

ACT	CCS	DOC

Important - Please read

Please complete this report by February 15, 1978 and

RETURN YELLOW COPY TO – –

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47132

NOTE – Shaded boxes are for Bureau of the Census use only

Item 1 – COMPANY OWNERSHIP OR CONTROL (DOMESTIC)

Does another U.S. (domestic) company own more than 50 percent of the voting stock of your company OR have the power to control the management and policies of your company?

1 ☐ YES – *Enter the following information on the owning or controlling company and go to item 2.*

2 ☐ NO – *Go to item 2*

Name of owning or controlling company	Home office address *(Number and street, city, State, and ZIP code)*	Employer Identification Number of owning or controlling company
		–

Percent of voting stock owned – *Mark (X) one* → 1 ☐ **Less than 50%** 2 ☐ **50%** 3 ☐ **More than 50%**

Item 2 – COMPANY OWNERSHIP OR CONTROL (FOREIGN)

Does a foreign entity (company, individual, government, etc.) own 10 percent or more of the voting stock or other equity rights of your company?

1 ☐ YES – *Enter the following information on the owning entity and go to item 3.*

2 ☐ NO – *Go to item 3*

Name of owning entity	Home office address *(City, country)*

Percent of ownership – *Mark (X) one* → 1 ☐ **Less than 10%** 2 ☐ **10–24%** 3 ☐ **25–49%** 4 ☐ **50%** 5 ☐ **51–99%** 6 ☐ **100%**

Item 3 – FOREIGN AFFILIATES

Does this enterprise alone, or with its domestic affiliates, own 10 percent or more of the voting stock of an incorporated foreign business enterprise, or an equivalent interest in an unincorporated foreign business enterprise, including ownership of real estate?

1 ☐ YES – *Go to item 4*

2 ☐ NO – *Go to item 4*

Item 4 – CERTIFICATION

Name of person to contact regarding this report	Address (if different from above address)	Telephone: Area code	Number	Extension

This report is substantially accurate.

Signature of authorized person	Title	Date

FORM NC-X1 (Item 5A) (4-27-77)

U S DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 ECONOMIC CENSUSES
REPORT OF ORGANIZATION

Refer to this CENSUS FILE NUMBER in any correspondence pertaining to this report

Item 5A – ESTABLISHMENTS OF YOUR COMPANY AND ITS SUBSIDIARIES

This item should include an up-to-date list of all establishments of your company and its subsidiaries, for which separate establishment reports are not required, for the 1977 Economic Censuses. Please correct any errors or omissions in the prelisted information in column (a) and complete columns (b) and (c) as indicated. Estimates are acceptable if book figures are not readily available. Please read the definitions and instructions on the reverse side before completing this item.

Line No.	(a) Employer Identification (EI) Number, establishment name, address of **physical** location (including ZIP code), and major activity *Add store or plant number, if any, and correct any errors or omissions*	(b) 1977 Establishment data *Report the number of employees and payroll for each establishment (including part year operations)*	(c) Status of establishment at end of 1977 *Mark (X) one box and complete as indicated*
	EMPLOYER IDENTIFICATION NO. | Census use only: GEO | SC | TE NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY | STATE | ZIP MAJOR ACTIVITY	Employees (during pay period including March 12, 1977) (Number) Payroll for 1st quarter of 1977 before deductions (Mil. | Thou. | Dol.) Total annual payroll for 1977 before deductions (Mil. | Thou. | Dol.)	1 ☐ In operation 2 ☐ Sold or leased → MO | DAY | YR NAME OF PURCHASER OR LESSEE NUMBER AND STREET CITY | STATE | ZIP CODE 3 ☐ Closed (no new owner or operator), dismantled, or destroyed on → MO | DAY | YR 4 ☐ Idle or inactive (but still owned) → 5 ☐ Other – *Describe* →
Census use only	CENSUS FILE NO. | TO | IND | TAB | WT	CCS | NID	
	EMPLOYER IDENTIFICATION NO. | Census use only: GEO | SC | TE NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY | STATE | ZIP MAJOR ACTIVITY	Employees (during pay period including March 12, 1977) (Number) Payroll for 1st quarter of 1977 before deductions (Mil. | Thou. | Dol.) Total annual payroll for 1977 before deductions (Mil. | Thou. | Dol.)	1 ☐ In operation 2 ☐ Sold or leased → MO | DAY | YR NAME OF PURCHASER OR LESSEE NUMBER AND STREET CITY | STATE | ZIP CODE 3 ☐ Closed (no new owner or operator), dismantled, or destroyed on → MO | DAY | YR 4 ☐ Idle or inactive (but still owned) → 5 ☐ Other – *Describe* →
Census use only	CENSUS FILE NO. | TO | IND | TAB | WT	CCS | NID	
	EMPLOYER IDENTIFICATION NO. | Census use only: GEO | SC | TE NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY | STATE | ZIP MAJOR ACTIVITY	Employees (during pay period including March 12, 1977) (Number) Payroll for 1st quarter of 1977 before deductions (Mil. | Thou. | Dol.) Total annual payroll for 1977 before deductions (Mil. | Thou. | Dol.)	1 ☐ In operation 2 ☐ Sold or leased → MO | DAY | YR NAME OF PURCHASER OR LESSEE NUMBER AND STREET CITY | STATE | ZIP CODE 3 ☐ Closed (no new owner or operator), dismantled, or destroyed on → MO | DAY | YR 4 ☐ Idle or inactive (but still owned) → 5 ☐ Other – *Describe* →
Census use only	CENSUS FILE NO. | TO | IND | TAB | WT	CCS | NID	
	EMPLOYER IDENTIFICATION NO. | Census use only: GEO | SC | TE NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY | STATE | ZIP MAJOR ACTIVITY	Employees (during pay period including March 12, 1977) (Number) Payroll for 1st quarter of 1977 before deductions (Mil. | Thou. | Dol.) Total annual payroll for 1977 before deductions (Mil. | Thou. | Dol.)	1 ☐ In operation 2 ☐ Sold or leased → MO | DAY | YR NAME OF PURCHASER OR LESSEE NUMBER AND STREET CITY | STATE | ZIP CODE 3 ☐ Closed (no new owner or operator), dismantled, or destroyed on → MO | DAY | YR 4 ☐ Idle or inactive (but still owned) → 5 ☐ Other – *Describe* →
Census use only	CENSUS FILE NO. | TO | IND | TAB | WT	CCS | NID	
	EMPLOYER IDENTIFICATION NO. | Census use only: GEO | SC | TE NAME STORE OR PLANT NO. NUMBER AND STREET OF PHYSICAL LOCATION CITY | STATE | ZIP MAJOR ACTIVITY	Employees (during pay period including March 12, 1977) (Number) Payroll for 1st quarter of 1977 before deductions (Mil. | Thou. | Dol.) Total annual payroll for 1977 before deductions (Mil. | Thou. | Dol.)	1 ☐ In operation 2 ☐ Sold or leased → MO | DAY | YR NAME OF PURCHASER OR LESSEE NUMBER AND STREET CITY | STATE | ZIP CODE 3 ☐ Closed (no new owner or operator), dismantled, or destroyed on → MO | DAY | YR 4 ☐ Idle or inactive (but still owned) → 5 ☐ Other – *Describe* →
Census use only	CENSUS FILE NO. | TO | IND | TAB | WT	CCS | NID	

Page _____ of _____ pages

FORM NC-X1 (Item 5B) (4-27-77)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 ECONOMIC CENSUSES

REPORT OF ORGANIZATION

PLEASE ENTER YOUR CENSUS FILE NUMBER (See front page)

_____

Item 5B – YOUR LISTING OF ADDITIONAL ESTABLISHMENTS AND SUBSIDIARIES

- **Column (a)** – List separately any establishments of your company and its subsidiaries located in the U.S. or any of its territories which are not accounted for on other report forms in this mailing package.
- **Instructions for questions (e) and (f)** – Answer question (e) for acquired establishments. Complete question (f) entering the data the establishment opened. If not yet in operation, enter the expected opening date and the expected employment.
- **Column (b)** – Complete this column for each listed establishment.
- **Column (c)** – Mark (X) the box which best describes the activity of each establishment. *See box codes*
- **Column (d)** – Describe major activity or list principal products or services.
- **NOTE:** Additional copies of **Item 5B** are available upon request to Bureau of the Census, 1201 East Tenth Street, Jeffersonville, Indiana 47132. If you prefer, you may use your own paper to list additional establishments; in such instances, however, please **follow the same format** as shown on the report form. Be sure to **enter** the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

DESCRIPTION AND CODES FOR COLUMN (c)

1 – Agricultural production
2 – Agricultural services
3 – Mining
4 – Construction
5 – Merchant wholesalers
6 – Commission agent/broker
7 – Communications
8 – Manufacturers' sales branches, manufacturers' sales offices
9 – Manufacturing
10 – Retail
11 – Retail concessions/departments in retail stores
12 – Transportation and public utilities
13 – Finance, insurance, or real estete
14 – Services
15 – Medical, legal, or educetional
16 – Auxiliary establishments primerily providing service to your own or affiliated company rather than customers or clients such as storage warehouses and research laboratories
17 – Central Administrative Office: accounting, purchasing, legal activities for your own company
18 – Other – *Specify major activity in column (d) below*

Line No.	(a) Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of physical location (including ZIP code)	(b) 1977 establishment data — *Report number of employees and payroll for each establishment (including part-year operations)*	(c) Kind of business activity in 1977 — Major activity *Mark (X) one box from the above descriptions*	(d) Description of major activity or principal products or services
	EMPLOYER IDENTIFICATION NUMBER ___ — _____ ; NAME; STORE OR PLANT NO.; NUMBER AND STREET OF PHYSICAL LOCATION; CITY; STATE; ZIP CODE; (e) Was this establishment acquired from another company? ☐ YES ☐ NO → DATE ACQUIRED MONTH DAY YEAR; NAME AND ADDRESS OF FORMER OWNER OR OPERATOR; (f) Date establishment opened or is expected to open and expected employment. MONTH DAY YEAR EXPECTED EMPLOYMENT	Employees (during pay period including March 12, 1977) (Number); Payroll for 1st quarter of 1977 before deductions Mil. Thou. Dol.; Total annual payroll for 1977 before deductions; Census use only: CENSUS FILE NO. SC TO IND FORM; TAB WT CCS OID	1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐	
	EMPLOYER IDENTIFICATION NUMBER ___ — _____ ; NAME; STORE OR PLANT NO.; NUMBER AND STREET OF PHYSICAL LOCATION; CITY; STATE; ZIP CODE; (e) Was this establishment acquired from another company? ☐ YES ☐ NO → DATE ACQUIRED MONTH DAY YEAR; NAME AND ADDRESS OF FORMER OWNER OR OPERATOR; (f) Date establishment opened or is expected to open and expected employment. MONTH DAY YEAR EXPECTED EMPLOYMENT	Employees (during pay period including March 12, 1977) (Number); Payroll for 1st quarter of 1977 before deductions Mil. Thou. Dol.; Total annual payroll for 1977 before deductions; Census use only: CENSUS FILE NO. SC TO IND FORM; TAB WT CCS OID	1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐	
	EMPLOYER IDENTIFICATION NUMBER ___ — _____ ; NAME; STORE OR PLANT NO.; NUMBER AND STREET OF PHYSICAL LOCATION; CITY; STATE; ZIP CODE; (e) Was this establishment acquired from another company? ☐ YES ☐ NO → DATE ACQUIRED MONTH DAY YEAR; NAME AND ADDRESS OF FORMER OWNER OR OPERATOR; (f) Date establishment opened or is expected to open and expected employment. MONTH DAY YEAR EXPECTED EMPLOYMENT	Employees (during pay period including March 12, 1977) (Number); Payroll for 1st quarter of 1977 before deductions Mil. Thou. Dol.; Total annual payroll for 1977 before deductions; Census use only: CENSUS FILE NO. SC TO IND FORM; TAB WT CCS OID	1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐	
	EMPLOYER IDENTIFICATION NUMBER ___ — _____ ; NAME; STORE OR PLANT NO.; NUMBER AND STREET OF PHYSICAL LOCATION; CITY; STATE; ZIP CODE; (e) Was this establishment acquired from another company? ☐ YES ☐ NO → DATE ACQUIRED MONTH DAY YEAR; NAME AND ADDRESS OF FORMER OWNER OR OPERATOR; (f) Date establishment opened or is expected to open and expected employment. MONTH DAY YEAR EXPECTED EMPLOYMENT	Employees (during pay period including March 12, 1977) (Number); Payroll for 1st quarter of 1977 before deductions Mil. Thou. Dol.; Total annual payroll for 1977 before deductions; Census use only: CENSUS FILE NO. SC TO IND FORM; TAB WT CCS OID	1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐	

DUE DATE: 7 Days after Receipt

Form Approved: O.M.B. No. 41-S77010

FORM NC-X2 U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

1977 ECONOMIC CENSUSES

LISTING OF ADDITIONAL ESTABLISHMENTS

NOTICE – Response to this inquiry is **required by law (title 13, U.S. Code).** By the same law, your report to the Census Bureau is **confidential.** It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are **immune from legal process.**

In correspondence pertaining to this report, please refer to this Census File Number

Employer Identification Number

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47132

NOTE – Additional copies of this form are available upon request. If you prefer, list additional establishments on your own paper. BE SURE TO ENTER THE CENSUS FILE NUMBER in the upper right-hand corner of each additional sheet.

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Census use only	Unit No.	Item code	Unit No.	Item code	Unit No.	Item code	ACT	CCS	DOC

Item 1 – Does your organization or any of its subsidiaries have any establishments located in the United States or any of its territories which are not accounted for on other report forms in this mailing package?

☐ YES – *Go to item 2*
☐ NO – *Complete CERTIFICATION on reverse side and return report*

Item 2 – LISTING OF ADDITIONAL ESTABLISHMENTS

INSTRUCTIONS

Column (a) – Complete this column for each establishment that you list.

Column (b) – Mark (X) the box which best describes the principal activity of each establishment using the following code box descriptions:

1 – Agricultural production
2 – Agricultural services
3 – Mining
4 – Construction
5 – Merchant wholesaler
6 – Commission agent/broker
7 – Communications
8 – Manufacturers' sales branch/office
9 – Manufacturing
10 – Retail
11 – Retail concessions/departments in retail stores
12 – Transportation and public utilities
13 – Finance, insurance, or real estate
14 – Services
15 – Medical, legal, or educational
16 – Auxiliary establishments such as storage warehouses and research laboratories primarily providing service to your own or affiliated company rather than customers or clients
17 – Central administrative office, accounting, purchasing, legal activities for your own company
18 – Other – *Specify in column (c) below*

Column (c) – List in order of importance the principal products mined or made; kinds of wholesale or retail business; types of services provided; kinds of construction work done; or the types of crops grown or animals raised, etc.

Column (d) – Complete as indicated.

NOTE – Please return this report form whether or not you report additional establishments.

Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of **physical** location (including ZIP code) (a)	Principal activity *Mark (X) one box from the above descriptions* (b)	Description of products, business, services, etc. *List in order of importance* (c)	Operating status (d)
EMPLOYER IDENTIFICATION NUMBER – ; NAME; STORE OR PLANT NO.; NUMBER AND STREET OF PHYSICAL LOCATION; CITY; STATE; ZIP CODE; Census use only: CENSUS FILE NO.; SC; TO; IND; FORM; TAB; WT; CCS; OID	1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐	GEO	Date establishment opened or is expected to open: MONTH; DAY; YEAR; APPROXIMATE EMPLOYMENT. Was this establishment acquired from another company? ☐ YES ☐ NO; DATE ACQUIRED: MONTH; DAY; YEAR. NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
EMPLOYER IDENTIFICATION NUMBER – ; NAME; STORE OR PLANT NO.; NUMBER AND STREET OF PHYSICAL LOCATION; CITY; STATE; ZIP CODE; Census use only: CENSUS FILE NO.; SC; TO; IND; FORM; TAB; WT; CCS; OID	1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐	GED	Date establishment opened or is expected to open: MONTH; DAY; YEAR; APPROXIMATE EMPLOYMENT. Was this establishment acquired from another company? ☐ YES ☐ NO; DATE ACQUIRED: MONTH; DAY; YEAR. NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
EMPLOYER IDENTIFICATION NUMBER – ; NAME; STORE OR PLANT NO.; NUMBER AND STREET OF PHYSICAL LOCATION; CITY; STATE; ZIP CODE; Census use only: CENSUS FILE NO.; SC; TO; IND; FORM; TAB; WT; CCS; OID	1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐	GEO	Date establishment opened or is expected to open: MONTH; DAY; YEAR; APPROXIMATE EMPLOYMENT. Was this establishment acquired from another company? ☐ YES ☐ NO; DATE ACQUIRED: MONTH; DAY; YEAR. NAME AND ADDRESS OF FORMER OWNER OR OPERATOR

Continued on reverse side

Item 2 – LISTING OF ADDITIONAL ESTABLISHMENTS – Continued

Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of **physical** location (including ZIP code) (a)	Principal activity *Mark (X) one box from the above descriptions* (b)	Description of products business, services, etc. *List in order of importance* (c)	Operating status (d)
EMPLOYER IDENTIFICATION NUMBER – ; NAME; STORE OR PLANT NO.; NUMBER AND STREET OF PHYSICAL LOCATION; CITY; STATE; ZIP CODE; **Census use only**: CENSUS FILE NO.; SC; TO; IND; FORM; TAB; WT; CCS; OID	1 ☐ 10 ☐ … 9 ☐ 18 ☐	GEO	Date establishment opened or is expected to open: MONTH; DAY; YEAR; APPROXIMATE EMPLOYMENT. Was this establishment acquired from another company? ☐ YES ☐ NO → DATE ACQUIRED: MONTH; DAY; YEAR. NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
EMPLOYER IDENTIFICATION NUMBER – ; NAME; STORE OR PLANT NO.; NUMBER AND STREET OF PHYSICAL LOCATION; CITY; STATE; ZIP CODE; **Census use only**: CENSUS FILE NO.; SC; TO; IND; FORM; TAB; WT; CCS; OID	1 ☐ 10 ☐ … 9 ☐ 18 ☐	GEO	Date establishment opened or is expected to open: MONTH; DAY; YEAR; APPROXIMATE EMPLOYMENT. Was this establishment acquired from another company? ☐ YES ☐ NO → DATE ACQUIRED: MONTH; DAY; YEAR. NAME AND ADDRESS OF FORMER OWNER OR OPERATOR
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Item 3 CERTIFICATION

Name of person to contact regarding this report	Address (if different from label address)	Telephone: Area code; Number; Extension

This report *(including attached continuation pages)* is substantially accurate and has been prepared in accordance with instructions.

Signature of authorized person	Title	Date

FORM NC-X2

PENALTY FOR FAILURE TO REPORT
DUE DATE: FEBRUARY 15, 1978

O.M.B. No. 41-S77014; Approval Expires December 31, 1978

FORM NC-X3 (4-4-77)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 ECONOMIC CENSUSES

GENERAL SCHEDULE

NOTICE – Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is **confidential.** It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are **immune from legal process.**

In correspondence pertaining to this report, please refer to this Census File Number

NC-X3

Employer Identification Number

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47132

Census use only

Unit No.	Item code	Unit No.	Item code	Unit No.	Item code

KEEP THIS COPY FOR YOUR FILES

PLEASE COMPLETE AND RETURN THE FORM WHICH SHOWS YOUR NAME AND ADDRESS

Please correct errors in neme, eddress and ZIP code. ENTER street end number if not shown.

Important–Please read

The data reported on this form should cover only the establishment shown on the address label. However, if more than one establishment (location) was operated under the same Employer Identification Number in 1977, consolidate data for all such locations in items 5 and 6. In item 1 enter the location of the MAIN establishment. In item 12c provide information separately for each location, INCLUDING the main establishment.

Item 1 – PHYSICAL LOCATION OF ESTABLISHMENT – In order to assign this establishment to the correct geographic area, the Bureau of the Census must know the actual location **which may differ from the mailing address.** *Complete items a through g.*

a. Address number and street name of physical location – *If not known, enter building neme, shopping center neme, or other physicel locetion description. Do not enter P.O. box or rurel route.*
Mark (X) for a, b, c, and d if same as mailing label; if different show corrections.
Same as mailing label ☐ OR ▶

b. Name of city, town, village, borough, etc. of physical location
Same as mailing label ☐ OR ▶

c. State
Same as mailing label ☐ OR ▶

d. ZIP code
Same as mailing label ☐ OR ▶

e. Type of municipality indicated in 1b — *Mark (X) one*
1 ☐ City 2 ☐ Town 3 ☐ Village 4 ☐ Borough 5 ☐ Township 6 ☐ Unincorporated 7 ☐ Other – *Specify* _____ 8 ☐ Don't know

f. **Is this establishment located inside the legal boundaries of the city, town, village, etc., indicated in 1b?**
1 ☐ Yes 2 ☐ No 3 ☐ No legal boundaries 4 ☐ Don't know
NOTE – The area served by a post office generally does not coincide with the legal boundaries of the municipality from which the post office takes its name.

g. Name of county (Louisiana parish) of physical location

Item 2 – EMPLOYER IDENTIFICATION NUMBER
Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941?
☐ YES
☐ NO – *Enter current EI number* ▶ ☐☐–☐☐☐☐☐☐☐ *(9 digits)*

Item 3 – OPERATIONAL STATUS
a. Mark (X) the **ONE** box which best describes this establishment at the end of 1977.
001
1 ☐ In operation
2 ☐ Temporarily or seasonally inactive
3 ☐ Ceased operation – *Give date* ▶
4 ☐ Sold or leased to another operator – *Give date AND neme, etc.* ▶

Figures only

Month	Day	Year

Name of new owner or operator

Number and street

City | State | ZIP code

b. **How many months during 1977 did your firm or organization actively operate this establishment?**

Number of months
002

Item 4 – ORGANIZATIONAL STATUS
a. Mark (X) the **ONE** box which best describes this establishment during 1977.
003
1 ☐ Individual proprietorship
2 ☐ Partnership
8 ☐ Cooperative association
5 ☐ Governmental – *Specify* _____
0 ☐ Corporation (other than specified above)
9 ☐ Other – *Specify* _____

b. **Was all or part of the income of this establishment or organization exempt from Federal income taxes under Section 501 or 521 of the Internal Revenue Code?**
004
1 ☐ YES
2 ☐ NO

Important–Please read

Dollar figures should be reported as illustrated. Please be careful to enter the figures in the **correct columns.** See example below:

EXAMPLE: If figure is $1,125,628.28 ▶
• **PREFERRED** method . . . . . 1 | 125 |
Acceptable method . . . . . 1 | 125 | 628

Item 5 – DOLLAR VOLUME

		Mil.	Thou.	Dol.
a. Sales of merchandise and other operating receipts or total revenue in 1977 **EXCLUDING** sales (or other) taxes collected	010			
b. Were sales (or other) taxes collected from customers and forwarded to taxing authorities?	011	1 ☐ YES 2 ☐ NO		
If "YES," report the amount of such taxes *(**DO NOT** include taxes in 5a above)*	012			
c. **TOTAL DOLLAR VOLUME** including sales (or other) taxes (Sum of 5a and 5b above) ▶	013			
d. Expenses in 1977	040			

Item 6 – PAYROLL AND EMPLOYMENT

		Mil.	Thou.	Dol.
a. Payroll				
(1) Total **ANNUAL** payroll in 1977 before deductions	030			
(2) Payroll for the **FIRST QUARTER** of 1977	031			

b. **Employment** – Number of paid employees for the pay period including the 12th of the month (Include both full- and part-time employees)

032 MAR	033 MAY	034 AUG	035 NOV

Item 7 – SOURCE OF SALES, RECEIPTS, OR REVENUE – List below the principal lines of merchandise sold, kinds of construction work done, products produced, or services provided and indicate the approximate percentage each was of the total receipts or revenue in 1977.

Source	Percentage of receipts or revenue	Source	Percentage of receipts or revenue
	%		%
	%		%
	%		%
	%		%

Make sure all items on this page have been completed and continue to NEXT PAGE

Item 8 – BUSINESS OR ACTIVITY – Mark (X) the **ONE** box which best describes the **principal** activity during the past year. 070

Census use only

- ☐ AGRICULTURAL PRODUCTION
- ☐ MINERALS EXTRACTION OR ORE PROCESSING
- ☐ MANUFACTURING
- ☐ MOTOR CARRIER (ICC REGULATED)
- ☐ MOTOR CARRIER (EXCEPT ICC REGULATED)

CONSTRUCTION
- ☐ Building construction – General contractor
- ☐ Other construction – General contractor
- ☐ Special trade contractor (electricians, carpenters, painters, etc.)
- ☐ Land developer and subdivider
- ☐ Real estate – *Specify activity* _____

WHOLESALE TRADE
- ☐ Merchant wholesaler
- ☐ Agent or broker
- ☐ Other type of wholesaler – *Specify* _____

RETAIL TRADE
- ☐ Selling at this establishment
- ☐ Mail order (catalog selling)
- ☐ House-to-house (direct selling)
- ☐ Operating merchandise vending machines
- ☐ Other type of retailer – *Specify* _____
- ☐ **Other – *Specify activity*** _____

Item 9 – If "Manufacturing" is marked in item 8, list the primary materials consumed in producing the manufactured products.

Item 10 – CLASS OF CUSTOMER

To whom do you sell most of your products or provide your services?

- ☐ Retail or wholesale establishments
- ☐ Construction contractors
- ☐ General public (household consumers and individuals)
- ☐ Institutional, industrial, commercial, professional, government, and farm users
- ☐ Other – *Specify* _____

Item 11 – OWNERSHIP OR CONTROL

Enter the company name and address (street name and number, city, State, ZIP code) and EI Number. If more space is needed to list companies, attach a separate sheet.

a. Is this company owned or controlled by another company? 1 ☐ YES → 2 ☐ NO

Owning or controlling company

EI No. *(9 digits)* ☐☐☐–☐☐☐☐☐☐

b. Does this company own or control any other company or companies? 1 ☐ YES → 2 ☐ NO

Owned or controlled company

EI No. *(9 digits)* ☐☐☐–☐☐☐☐☐☐

Item 12 – LOCATIONS OF OPERATION

a. **Were the operations under the EI Number shown in the mailing label (or as corrected in item 2) conducted at more than one location during 1977?** (Including all selling or service locations and any other facilities such as warehouses, administrative offices, etc.)

1 ☐ YES – *Answer (b) and (c)*
2 ☐ NO – *SKIP to item 13*

b. **At how many separate locations were these operations conducted during 1977?** Number of locations

c. List each location – including main location. If more space is needed, attach a separate sheet providing the same information required below.

Census use only	Physical location of each operation *Name, address and ZIP code* (a)				1977 sales and receipts and annual and 1st quarter payrolls *Totals should equal items 5a and 6a(1) and (2)* (b)	Mil.	Thou.	Dol.	Number of paid employees for the pay period including the 12th of each month *Totals should equal corresponding entries in item 6b* (c)		Primary kind of business or activity of each location *Describe* (d)
080	Name				Sales and receipts	081			084 MAR	085 MAY	
	Number and street of physical location				Total annual payroll	082			086 AUG	087 NOV	
	City	State	ZIP code		1st quarter payroll	083					088 Census use only
080	Name				Sales and receipts	081			084 MAR	085 MAY	
	Number and street of physical location				Total annual payroll	082			086 AUG	087 NOV	
	City	State	ZIP code		1st quarter payroll	083					088 Census use only
080	Name				Sales and receipts	081			084 MAR	085 MAY	
	Number and street of physical location				Total annual payroll	082			086 AUG	087 NOV	
	City	State	ZIP code		1st quarter payroll	083					088 Census use only
080	Name				Sales and receipts	081			084 MAR	085 MAY	
	Number and street of physical location				Total annual payroll	082			086 AUG	087 NOV	
	City	State	ZIP code		1st quarter payroll	083					088 Census use only
080	Name				Sales and receipts	081			084 MAR	085 MAY	
	Number and street of physical location				Total annual payroll	082			086 AUG	087 NOV	
	City	State	ZIP code		1st quarter payroll	083					088 Census use only
	TOTALS (Sum of entries should equal corresponding entries in items 5a and 6 on page 1)				Sales and receipts				MAR	MAY	
					Total annual payroll				AUG	NOV	
					1st quarter payroll						

Item 13 – CERTIFICATION

Name of person to contact regarding this report	Telephone: Area code	Number	Extension
Address – *Number and street*			
City	State	ZIP code	

This report is substantially accurate and has been prepared in accordance with instructions.

Period covered → From: Mo. Day Year To: Mo. Day Year

Signature of authorized person

Title Date

FORM NC-X3 (4-4-77)

PENALTY FOR FAILURE TO REPORT
DUE DATE: FEBRUARY 15, 1978

Form Approved: O.M.B. No. 41-S77017

FORM NC-X6 (0600)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 ECONOMIC CENSUSES

CENTRAL ADMINISTRATIVE OFFICE OR AUXILIARY ESTABLISHMENT

Important – PLEASE READ ALL ACCOMPANYING INSTRUCTIONS

NOTICE – Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47132

In correspondence pertaining to this report, please refer to this Census File Number

NC-X6 (0600)

Employer Identification Number

Census use only	Unit No.	Item code	Unit No.	Item code	Unit No.	Item code

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Item 1 – PHYSICAL LOCATION OF ESTABLISHMENT – In order to assign this establishment to the correct geographic area, the Bureau of the Census must know the actual location which may differ from the mailing address. *Complete items a through g.*

a. Address number and street name of physical location – *If not known, enter building name, shopping center name, or other physical location description. Do not enter P.O. box or rural route.*
Mark (X) for a, b, c, and d if same as mailing label; if different show corrections.
Same as mailing label [ ] OR ▶

b. Name of city, town, village, borough, etc., of physical location
Same as mailing label [ ] OR ▶

c. State
Same as mailing label [ ] OR ▶

d. ZIP code
Same as mailing label [ ] OR ▶

e. Type of municipality indicated in 1b (*Mark (X) one*)
1 [ ] City
2 [ ] Town
3 [ ] Village
4 [ ] Borough
5 [ ] Township
6 [ ] Unincorporated
7 [ ] Other – *Specify* _____
8 [ ] Don't know

f. **Is this establishment located inside the legal boundaries of the city, town, village, etc., indicated in 1b?**
1 [ ] Yes
2 [ ] No
NOTE – The area served by a post office generally does not coincide with the legal boundaries of the municipality from which the post office takes its name.
3 [ ] No legal boundaries
4 [ ] Don't know

g. Name of county (Louisiana parish) of physical location

Item 2 – EMPLOYER IDENTIFICATION NUMBER
Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941?
[ ] YES
[ ] NO – *Enter current EI number* ⟶ [ ][ ][ ][ ][ ][ ][ ][ ][ ] – [ ][ ][ ][ ][ ][ ][ ] *(9 digits)*

Item 3 – OPERATIONAL STATUS
a. Mark (X) the **ONE** box which best describes this establishment at the end of 1977.
001
1 [ ] In operation
2 [ ] Temporarily or seasonally inactive
3 [ ] Ceased operation – *Give date* ⟶
4 [ ] Sold or leased to another operator } *Give date AND name, etc.* ⟶

Figures only

Month	Day	Year

Name of new owner or operator

Number and street

City | State | ZIP code

b. **How many months during 1977 did your firm or organization actively operate this establishment?**
Number of months: 002

Item 4 – ORGANIZATIONAL STATUS
a. Mark (X) the **ONE** box which best describes this establishment during 1977.
003
1 [ ] Individual proprietorship
2 [ ] Partnership
8 [ ] Cooperative association
5 [ ] Governmental – *Specify* _____
0 [ ] Corporation (other than specified above)
9 [ ] Other – *Specify* _____

b. **Was all or part of the income of this establishment or organization exempt from Federal income taxes under Section 501 or 521 of the Internal Revenue Code?**
004
1 [ ] YES
2 [ ] NO

Item 5 – PRINCIPAL ACTIVITIES OF YOUR COMPANY SERVICED BY THIS ESTABLISHMENT IN 1977

a. **Does this establishment perform management, general administrative functions, or other supporting services PRIMARILY for establishments of this company (rather than for other business firms or for the general public)?** ("Company" refers to the parent firm and all its subsidiaries under common ownership or control.)
050
1 [ ] YES – *Complete items 5b, c, and d*
2 [ ] NO – *SKIP to item 6*

b. **Does this establishment perform these management administrative functions or services for more than one establishment of this company?**
051
1 [ ] YES
2 [ ] NO

c. Mark (X) the **principal** kind of business or industrial activity of the establishments of this company that are managed or serviced by this central office or auxiliary.
052
1 [ ] Manufacturing
2 [ ] Construction
3 [ ] Mining and mineral industries
4 [ ] Manufacturer sales branches or other wholesale operations
5 [ ] Retail stores
6 [ ] Other – *Describe* _____

d. List in order of importance, the **principal** products made, kinds of retail or wholesale business operated, types of services rendered, or construction activities performed by the establishments that are managed or serviced by this central office or auxiliary.
(1)
(2)

Important – Please read

Dollar figures should be reported as illustrated. Please be careful to enter the figures in the **correct columns.** See example below:

EXAMPLE: If figure is **$1,125,628.28** ⟶

	Millions (000)	Thousands (000)	Dollars (000)
• PREFERRED method	1	125	
Acceptable method	1	125	628

Item 6 – EMPLOYMENT

	Number
a. Employment by function for pay period including March 12	060
(1) Centralized administration	
(2) Research, development, and testing	061
(3) Warehousing	062
(4) Electronic data processing	063
(5) Sales to customers directly from this location	064
(6) Trading stamp redemption	065
(7) Other – *Specify*	066
(8) TOTAL employment (Sum of lines (1) through (7)) ⟶	067
b. Total employment for pay period including the 12th of the following months –	068
(1) May	
(2) August	069
(3) November	070

Item 7 – PAYROLL

	Mil.	Thou.	Dol.
a. TOTAL FIRST QUARTER payroll before deductions ⟶ 071			
b. TOTAL ANNUAL PAYROLL before deductions ⟶ 072			
c. Of the total annual payroll reported in item 7b above, how much was for delivery personnel (including drivers, driver salesmen, etc.), who are engaged in transporting the merchandise of this company, and who are employed at this establishment? ⟶ 073			

Item 8 – EMPLOYER COSTS FOR FRINGE BENEFITS

a. Required by law 080			
b. Other fringe benefits 081			
c. TOTAL fringe benefits (Sum of lines a and b) ⟶ 082			

Please continue on page 2 ⟶

Item 9 – BILLINGS TO RETAIL STORES OF THIS COMPANY 090

a. Did this establishment have billings to retail stores of this company during 1977? 1 YES – *Go to b* 2 NO – *SKIP to item 10*

	Mil.	Thou.	Dol.
b. Total billings by this establishment in 1977 to retail stores of this company. → 091			

EXAMPLE FOR REPORTING PERCENTS — If figure is **38.76%** of total sales:

	Whole percent
• Report whole percents →	39%
Not acceptable →	38.76%

Item 10 – SALES TO CUSTOMERS OUTSIDE THIS COMPANY 100

a. Did this establishment have sales to customers outside this company during 1977? 1 YES – *Go to b* 2 NO – *SKIP to item 11*

	Mil.	Thou.	Dol.
b. (1) Sales and other operating receipts (exclude sales or other taxes collected) 101			
(2) Were sales (or other) taxes collected from customers and forwarded to taxing authorities? 102 1 YES 2 NO			
If "YES," report amount of taxes *(DO NOT include in 10b(1))* → 103			
(3) TOTAL sales and other operating receipts (including sales or other taxes collected) (Sum of lines (1) and (2)) → 104			

	Whole percent
c. Of the value of sales and other operating receipts reported in item 10b(1), report the approximate percentage of these receipts to –	
(1) General public (households, consumers and individuals) 105	%
(2) Other, include retailers; wholesalers; institutional, industrial, commercial, professional, and farm users (for use in farm production); and government 106	

d. List the **principal** products sold or services rendered by this establishment to customers outside this company, and their approximate percent of 1977 sales and receipts as reported in item 10b(1) above.

Principal products sold or services rendered	Percent of sales and receipts in 1977
(1)	%
(2)	%

Item 11 – CAPITAL EXPENDITURES (EXCLUDE LAND AND MINERAL RIGHTS) 110

a. Did this establishment make capital expenditures during 1977? 1 YES – *Go to b* 2 NO – *SKIP to item 12*

b. Type of capital expenditures	Mil.	Thou.	Dol.
(1) New structures and additions to plant 111			
(2) New automobiles, trucks, trailers, etc., for highway use 112			
(3) New computers and peripheral data processing equipment 113			
(4) All other expenditures for new machinery and equipment 114			
(5) Used plant and used equipment acquired from others 115			
(6) TOTAL capital expenditures (Sum of lines (1) through (5)) → 116			

Item 12 – GROSS VALUE OF DEPRECIABLE ASSETS (EXCLUDE LAND) 120

a. Did this establishment maintain depreciable assets during 1977? 1 YES – *Go to b* 2 NO – *SKIP to item 13*

b. Gross value of depreciable assets, end of 1976	Mil.	Thou.	Dol.
(1) Buildings and structures 121			
(2) Machinery and equipment 122			
(3) TOTAL (Sum of lines (1) and (2)) → 123			
c. Gross value of depreciable assets, end of 1977 124			
(1) Buildings and structures			
(2) Machinery and equipment 125			
(3) TOTAL (Sum of lines (1) and (2)) → 126			

Item 13 – DEPRECIATION CHARGES 130

a. Did this establishment maintain depreciation accounts during 1977? 1 YES – *Go to b* 2 NO – *SKIP to item 14*

	Mil.	Thou.	Dol.
b. TOTAL depreciation charges against assets during 1977 → 131			

Item 14 – SELECTED OPERATING EXPENSES

	Mil.	Thou.	Dol.
(1) Cost of purchased electricity 140			
(2) Cost of fuels consumed 141			
(3) Cost of purchased communication services 142			
(4) Cost of purchased repair services for buildings and structures 143			
(5) Cost of purchased repair services for machinery and equipment 144			

Item 15 – RENTAL PAYMENTS (EXCLUDE LAND) 150

a. Did this establishment make rental payments during 1977? 1 YES – *Go to b* 2 NO – *SKIP to item 16*

b. Rental payments made for this establishment	Mil.	Thou.	Dol.
(1) For use of buildings and structures 151			
(2) For use of machinery and equipment 152			
(3) TOTAL rental payments (Sum of lines (1) and (2)) → 153			

Item 16 – COST OF RESEARCH AND DEVELOPMENT 160

a. Did this establishment perform research and development during 1977? 1 YES – *Go to b* 2 NO – *SKIP to item 17*

b. Type of research and development performed	Mil.	Thou.	Dol.
(1) Federal contracts and subcontracts 161			
(2) With own funds and nonfederal sources 162			
(3) TOTAL cost of research and development (Sum of lines (1) and (2)) → 163			

Item 17 – INVENTORIES AND METHOD OF VALUATION 170

a. Did this establishment have inventories during 1977? 1 YES – *Go to b* 2 NO – *SKIP to item 18*

b. Value of inventories of this establishment	Mil.	Thou.	Dol.
(1) End of 1976 171			
(2) End of 1977 172			

c. If the dollar value of inventories at the end of 1977 exceeds $25(000), report the method of valuation below –	Inventories end of 1977
	Whole percent
(1) Cost	
(a) First-in, First-out (FIFO) 180	%
(b) Last-in, First-out (LIFO) 181	%
(c) Average cost 182	%
(d) Specific or actual cost 183	%
(e) Standard cost 184	%
(f) Other – *Specify* 185	%
(2) Market 186	
(a) Market used because lower than cost	%
(b) Market always used 187	%
(3) Other – *Specify* 188	%
(4) TOTAL (Sum of lines (1) through (3)) →	100%

Item 18 – CONSISTENCY CHECK 190

a. Were any of the above data (items 6–17) also reported in any other 1977 Census establishment report form of this company, i.e., in the Census Forms MA-, MC-, CB-, or CC- series? 1 YES – *Go to b* 2 NO – *SKIP to item 19*

b. Please give the 10-digit CENSUS FILE NUMBER of that report 191 CFN

Remarks *This space may be used for any explanation that may be essential in understanding your reported data.*

Item 19 – CERTIFICATION

Name of person to contact regarding this report	Telephone: Area code	Number	Extension

This report is substantially accurate and has been prepared in accordance with instructions.

Period covered → From: Mo. Day Year To: Mo. Day Year

Address – *Number and street*

Signature of authorized person

City	State	ZIP code

Title Date

PENALTY FOR FAILURE TO REPORT — DUE DATE: FEBRUARY 15, 1978 — Form Approved: O.M.B. No. 41-S77009

FORM NC-K1 (5-28-77)

NOTICE – Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

In correspondence pertaining to this report please refer to this Census File Number:

NC-K1 (9991)

1977 ECONOMIC CENSUSES

ENTERPRISE REPORT

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Please complete this form and RETURN TO: BUREAU OF THE CENSUS, 1201 East Tenth Street, Jeffersonville, Indiana 47132

If filing by due date causes a burden, a request for an extention of time should be sent to the above address.

CENSUS USE ONLY

Unit No.	Item code	Unit No.	Item code	Unit No.	Item code

Important *– Please read instructions before completing report*

Report the following items on a consolidated basis for the domestic activities of your enterprise. An enterprise is a business organization (i.e., company, service organization, membership organization, association, etc.) consisting of one or more establishments under common ownership or control. Furthermore, if an enterprise owns or controls other entities, all establishments of its subsidiaries are to be included as part of the owning or controlling enterprise. For purposes of this report, "domestic" activities include all 50 States and the District of Columbia. Do not include foreign activities, if any, except for reporting foreign assets in item 9. Consolidate all domestic activities, whether or not covered in the 1977 Economic Censuses by individual report forms.

If book records are not available, enter your best estimate. **Before completing these items, please read the detailed instructions.**

Item 1 – CERTIFICATION

Name of person to contact regarding this report	Telephone: Area code	Number	Extension

Address – *Number and street*

City | State | ZIP code

This report is substantially accurate and has been prepared in accordance with instructions.

Period covered → From: Mo. 010 Day 011 Year 012 — To: Mo. 013 Day 014 Year 015

Signature of authorized person

Title | Date

Important - Please read

Dollar figures should be reported as illustrated. Please be careful to enter your figures in the correct columns. See example below:

EXAMPLE: If figure is $1,125,628.28 →

	Mil.	Thou.	Dol.
	000	000	000
• PREFERRED method	1	126	
Acceptable method	1	125	628

Item 2 – TOTAL EMPLOYMENT

Number of paid employees for the pay period including March 12, 1977 — Number of employees 020

Item 3 – TOTAL PAYROLL

	Mil.	Thou.	Dol.
	000	000	000
a. Payroll for the **FIRST QUARTER** of 1977, before deductions — 030			
b. **TOTAL ANNUAL** payroll in 1977, before deductions — 031			

Item 4 – EMPLOYER COSTS FOR FRINGE BENEFITS

a. Required by law	040		
b. Other fringe benefits	041		
c. Total fringe benefits ***(Sum of lines a and b)***	042		

Item 5 – SALES AND RECEIPTS

a. Sales and other operating receipts (exclude sales or other taxes collected)	050		
b. Were sales (or other) taxes collected from customers and forwarded to taxing authorities?	051: 1 ☐ YES, 2 ☐ NO		
	Mil.	Thou.	Dol.
If "Yes," report amount of taxes. ***Do not include in 5a.***	052		
c. TOTAL **sales and other operating receipts (including sales or other taxes collected)** ***(Sum of lines a and b)***	053		

PLEASE CONTINUE ON REVERSE SIDE

Item 6 – CAPITAL EXPENDITURES (Exclude land and mineral rights)		Millions	Thousands	Dollars
		000	000	000
a. New structures and additions to plant	060			
b. New automobiles, trucks, trailers, etc., for highway use	061			
c. New computers and peripheral data processing equipment	062			
d. All other expenditures for new machinery and equipment	063			
e. Used plant and used equipment acquired from others	064			
f. Capitalized development and exploration of mineral properties	065			
g. **Total capital expenditures** *(Sum of lines a through f)*	066			
Item 7 – GROSS VALUE OF DEPRECIABLE ASSETS				
a. Gross depreciable assets, end of **1976**	070			
(1) For machinery and equipment	071			
(2) For buildings and structures	072			
(3) **Total** *(Sum of lines (1) and (2))*	073			
b. Total capital expenditures during 1977 (should equal line 6g)	074			
c. Other acquisitions by your company during 1977	075			
d. Deductions from depreciable assets during 1977	076			
e. Gross depreciable assets, end of **1977**				
(1) For machinery and equipment	077			
(2) For buildings and structures	078			
(3) **Total** *(Sum of lines (1) and (2))*				
Item 8 – CHANGES IN DEPRECIATION RESERVES				
a. Accumulated depreciation as of end of **1976**	080			
b. Depreciation charged against assets during 1977	081			
c. Additions charged to other accounts during 1977	082			
d. Deductions from reserves for retirements, renewals, and replacements during 1977	083			
e. Accumulated depreciation as of end of **1977** *(Sum of lines a through c minus line d)*	084			
Item 9 – TOTAL ASSETS, AS OF END OF 1977				
a. Net value of depreciable assets (should equal line 7e(3) minus line 8e)	090			
b. All other domestic assets, including inventories	091			
c. Net foreign assets	092			
d. **Total assets, as of end of 1977** *(Sum of lines a through c)*	093			

Item 10 – INVENTORIES AND METHOD OF VALUATION		Millions	Thousands	Dollars
		000	000	000
a. All inventories, as of end of **1976**	100			
b. All inventories, as of end of **1977**	101			

c. **METHOD OF INVENTORY VALUATION**

EXAMPLE FOR REPORTING PERCENTS	If figure is **38.76%** of total receipts:	Percent
	Report whole percents →	39%
	Not acceptable →	38.76%

Method of inventory			Whole percents: End of 1977	Whole percents: End of 1976
(1) **Cost**	(a) First-in, First-out (FIFO)	102		114
	(b) Last-in, First-out (LIFO)	103		115
	(c) Average cost	104		116
	(d) Specific or actual cost	105		117
	(e) Standard cost	106		118
	(f) Other – *Specify*	107		119
(2) **Market**	(a) Market used because lower than cost	108		120
	(b) Market always used	109		121
(3) **Retail method**	(a) Approximating lower of cost or market	110		122
	(b) Approximating cost	111		123
	(c) LIFO retail	112		124
(4) Other – *Specify*		113		125
(5) TOTAL		**100%**		**100%**

Item 11 – SELECTED OPERATING EXPENSES			Millions	Thousands	Dollars
			000	000	000
a. Did this enterprise make royalty payments for the use of intangible property rights during 1977?	126	1 ☐ YES – *Report value of payments* → 2 ☐ NO – *GO to b*	127		
b. Did this enterprise purchase advertising services during 1977?	128	1 ☐ YES – *Report cost of purchased services* → 2 ☐ NO – *GO to c*	129		
c. Did this enterprise make rental payments during 1977?	130	1 ☐ YES – *GO to d* 2 ☐ NO – *SKIP to item 12*			
d. Rental payments, excluding land			131		
(1) For use of buildings and structures			132		
(2) For machinery and equipment			133		
(3) Total rental payments *(Sum of lines (1) and (2))*					

Item 12 – CONSISTENCY CHECK

Is the gross value of depreciable assets at the end of the year minus total capital expenditures during the year within 5% of the gross value of depreciable assets at the beginning of the year? 140 — 1 ☐ YES — 2 ☐ NO – *Explain in Remarks*

REMARKS – *Please use this space for any explanation that may be essential in understanding your reported data.*

FORM NC-K1 (5-25-77)

PENALTY FOR FAILURE TO REPORT — DUE DATE: FEBRUARY 15, 1978 — Form Approved: O.M.B. No. 41-S77035

FORM MC-36B (Rev.) — U.S. DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS

1977 CENSUS OF MANUFACTURES

SWITCHGEAR AND SWITCHBOARD APPARATUS AND INDUSTRIAL CONTROLS

Please complete this form and RETURN TO: BUREAU OF THE CENSUS, 1201 East Tenth Street, Jeffersonville, Indiana 47132

NOTICE – Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report, please refer to this Census File Number ▼ Employer Identification Number ▼

Please read ...

A separate census report must be filed for each manufacturing establishment which your company operated in 1977. A manufacturing establishment is defined as a single physical location where products are manufactured, processed, or assembled.

Please read the instructions for each item before completing it. If book figures are not available, carefully prepared estimates are acceptable.

If filing by due date causes an undue burden, a time extension request should be sent to the above address. Please enter your 11-digit Census File Number on each page of this report and on any correspondence with us regarding this report.

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

110 | 111

ITEM 1A Physical location of establishment

In order to assign this establishment to the correct geographic area, the Bureau of the Census must know the actual location **which may differ from the mailing address.** *Complete items e through g.*

a. Address number and street name of physical location – *If not known, enter building name, shopping center name, or other physical location description. Do not enter P.O. box or rural route.* ***Mark (X) for a, b, c, and d if same as mailing label; if different enter corrections.*** Same as mailing label ☐ OR ▶

b. Name of city, town, village, borough, etc. of physical location — Same as mailing label ☐ OR ▶

c. State — Same as mailing label ☐ OR ▶

d. ZIP code — Same as mailing label ☐ OR ▶

e. Type of municipality indicated in 1Ab: 1 ☐ City; 2 ☐ Town; 3 ☐ Village; 4 ☐ Borough; 5 ☐ Township; 6 ☐ Unincorporated; 7 ☐ Other – *Specify* _____; 8 ☐ Don't know

f. **Is this establishment located inside the legal boundaries of the city, town, village, etc., indicated in 1Ab?** 1 ☐ Yes; 2 ☐ No; 3 ☐ No legal boundaries; 4 ☐ Don't know

NOTE – The area served by a post office generally does not coincide with the legal boundaries of the municipality from which it takes its name.

g. Name of county (Louisiana parish) of physical location

ITEM 1B Employer identification number(s)

Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941? 108 (9-digits)

☐ YES ☐ NO – *Enter current EI number* → ___-___

ITEM 1C Organizational status

Mark (X) the **ONE** box which best describes this establishment during 1977 — 109

1 ☐ Individual proprietorship; 2 ☐ Partnership; 0 ☐ Corporation (Do not mark if any form of cooperative association); 8 ☐ Cooperative association, corporate or non-corporate; 9 ☐ Other – *Specify* _____

Important – Please read

Dollars, hours worked, and kilowatt-hour figures should be reported in thousands. If you wish, you may report to the nearest unit. Please be careful to enter your figures in the **correct columns.**

EXAMPLE: If figure is $1,125,628.28 →

	Millions	Thousands	Dollars
	000	000	000
• PREFERRED method	1	126	
Acceptable method	1	125	628

REFER TO SPECIAL INSTRUCTIONS ON REVERSE SIDE FOR ITEMS 2–8

• *Complete each item and enter "0" when appropriate.*

ITEM 2 Number of employees

Number of production workers during pay period including the 12th of month	Key	Number
a. March	301	
b. May	302	
c. August	303	
d. November	304	
e. Sum of lines a–d	305	
f. Average number (divide line e by 4, omit fractions)	306	
g. All other employees (pay period including March 12th)	307	
h. TOTAL EMPLOYMENT (Sum of lines f and g, item 2) ▶	308	

ITEM 3A Annual payrolls

	Key	Mil.	Thou.	Dol.
a. Production workers' wages (for employees reported in item 2f)	309	$		
b. All other salaries and wages (for employees reported in item 2g)	310			
c. TOTAL PAYROLL (Item 3A) ▶	311	$		

ITEM 3B – Not applicable to this form

ITEM 3C First quarter payroll

	Key	Mil.	Thou.	Dol.
TOTAL PAYROLL FOR THE FIRST QUARTER (JANUARY–MARCH) ▶	316	$		

ITEM 4 Plant hours worked by production workers by quarter

	Key	Mil.	Thou.	Hrs.
a. January through March	316			
b. April through June	317			
c. July through September	318			
d. October through December	319			
e. TOTAL HOURS WORKED (Item 4) ▶	320			

ITEM 5 Cost of materials, resales, fuels, electricity, and contract work

	Key	Mil.	Thou.	Dol.
a. Cost of materials, parts, supplies, containers, etc., which were put into production, used as operating supplies, or used in repair and maintenance	321	$		
b. Cost of products bought and sold without further manufacture or assembly (Resales)	322			
c. Cost of fuels consumed during the year for heat and power	323			
d. Cost of purchased electricity	324			
e. Cost of contract work done for you by others on your materials	325			
f. TOTAL COST (item 5) ▶	326	$		

ITEM 6 – Not applicable to this form

ITEM 7 Inventories of this establishment

	END OF 1976 Key	Mil.	Thou.	Dol.	END OF 1977 Key	Mil.	Thou.	Dol.
a. Finished products	331	$			335	$		
b. Work-in-process	332				336			
c. Materials, supplies, fuels, etc.	333				337			
d. TOTAL INVENTORIES (item 7) ▶	334	$			338	$		

ITEM 8 Capital expenditures during year

	Key	Mil.	Thou.	Dol.
a. New structures and new additions to this plant (Exclude land)	342	$		
b. New machinery and equipment including replacements and capitalized repairs	343			
c. Used buildings and equipment	347			
d. TOTAL CAPITAL EXPENDITURES (Item 8) ▶	350	$		

ITEMS 9–15 – Not applicable to this form

CENSUS USE

CONTINUE ON PAGE 2 ➔

Page 2

Form MC-36B (Rev.)

ITEM 16A Operational status

a. Mark (X) **ONE** box — *Be sure to indicate the date of any change*

Enter figures only: Mo. | Day | Year

112

1 ☐ No change in operator or operations

2 ☐ Reorganized — *Complete report for full year and describe type of change in remarks*

3 ☐ Started new business (newly constructed or completely equipped when started)

4 ☐ Establishment closed (no new owner or operator), dismantled, abandoned, or destroyed

5 ☐ Establishment idle or inactive but still owned

6 ☐ Establishment was acquired or leased from another company

Mark (X) **ONE** box and give name and address if —

☐ Building only acquired

☐ Complete plant acquired (building, machinery, and equipment)

Name of former operator — *Enter current EI number (9 digits)*

Number and street, city, State, ZIP code

7 ☐ Establishment was sold or leased to another company — Mo. | Day | Year

Mark (X) **ONE** box and give name and address if —

☐ Building only sold

☐ Complete plant sold (building, machinery, and equipment)

Name of new operator — *Enter current EI number (9 digits)*

Number and street, city, State, ZIP code

b. Is the FIRST DIGIT of your Census File Number (imprinted in the address box) a Zero "0"? ☐ YES — *Complete item 16B, a through d* ☐ NO — *SKIP to item 16C*

ITEM 16B Ownership and control

113

a. Is this company owned or controlled by another company? 1 ☐ YES → 2 ☐ NO

Enter the company name and address *(Number and street, city, State, ZIP code)* and EI number. If more space is needed to list companies, use remarks section.

603 Name and address of owning or controlling company — *Enter current EI number (9 digits)*

114

b. Does this company own or control any other company or companies? 1 ☐ YES → 2 ☐ NO

604 Name and address of owned or controlled company — *Enter current EI number (9 digits)*

c. Did this company have any manufacturing plants under construction but not in operation at the end of the year? 1 ☐ YES 2 ☐ NO

d. Did this company operate at more than one location during the survey year? If more space is needed, attach separate sheet. 1 ☐ YES — *List additional locations below* 2 ☐ NO — *SKIP to item 16C*

Physical address of business location *(Number and street, city, State, ZIP code)* (1)	Employer Identification Number (2)	Kind of business at this location (3)	Sales and receipts (4) Mil.	Thou.	Dol.	Annual payroll (5) Mil.	Thou.	Dol.	Number of employees (6)	Are these figures included on the front of this report? (7)
605	606 *(9 digits)*	607	608			609			610	☐ YES ☐ NO
605	606 *(9 digits)*	607	608			609			610	☐ YES ☐ NO

ITEM 16C CHECKS to assure a complete and accurate report

The Bureau of the Census reviews this report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning this report.

- Review the report carefully to see that no items are omitted for the year being covered.
- Calculate and enter figures for the four "reasonableness" checks below, and review the results.
- Correct your report for any errors you find and explain unusual figures in remarks.

For most manufacturing establishments, the figures computed usually fall within the ranges indicated.

"Reasonableness" checks	Calculation required for each check	Figures for survey year	Usual range
a. Average hourly wages per production worker	Item 3Aa (Production workers' wages) ÷ item 4e (Total hours worked)	$/hr.	$2 – $10
b. Hours worked per year per production worker	Item 4e (Total hours worked) ÷ item 2f (Average number of production workers)	hrs./yr.	1000 – 3000
c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ item 18 (Total value of shipments)	¢	05¢ – 95¢
d. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ item 18 (Total value of shipments)	¢	05¢ – 95¢

e. Is the total for Value of Shipments (item 18) greater than the sum for payroll (item 3Ac) plus total Cost of Materials, etc. (item 5f)? ☐ YES ☐ NO — *Explain in remarks*

Remarks — *Please use this space for any explanations that may be essential in understanding your reported data.*

SPECIAL INSTRUCTIONS FOR ITEMS 2–8

▶ **Item 2 — Number of employees** — Report all employees at this establishment who received pay for part of the pay period including the 12th of the specified months. Include officers at this establishment, if a corporation. If an unincorporated concern exclude proprietor or partners.

▶ **Items 2a–2d — Number of production workers** — Report workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspecting, and other manufacturing.

▶ **Item 2g — All other employees** — Report nonproduction personnel, including those engaged in supervision (above the working foreman level), installation and servicing of own product, sales, delivery, professional, technical, administrative, etc.

▶ **Item 3a — Annual payrolls** — Report gross earnings prior to deductions paid in the calendar year to those employees reported in item 2. Include commissions, dismissal pay, bonuses, and vacation pay.

▶ **Item 4 — Plant hours worked by production workers by quarter** — Include all production hours worked, including overtime hours, but excluding paid vacations, etc. These should be reported as actual hours worked, not straight-time equivalent hours.

▶ **Item 5 — Cost of materials, etc.** — Report total delivered cost after discounts and including freight of the materials actually consumed or put in production during the year. Include purchases, interplant transfers, and withdrawal from inventories.

If there are no records of consumption, purchases may be reported instead for minor items. This can also be done for major items if purchases do not differ significantly from the amounts actually used. Where consumption of major items differs significantly from purchases, consumption may be estimated by adding beginning inventories to the amount purchased and subtracting ending inventories.

▶ **Item 5a — Cost of materials, parts, supplies, containers, etc., consumed** — The delivered cost figures should cover all raw materials, containers, scrap, supplies, etc., which were: (1) put into production, (2) used as operating supplies, (3) used in repair and maintenance. Item 5a should be consistent with the data in item 17B.

▶ **Item 5b — Cost of products bought and sold** — Report the cost of all products bought and sold in the same condition as when purchased, and not made part of another product manufactured by this establishment. (Total sales value of all products sold is to be reported in item 18 on the line for resales.)

▶ **Item 5c — Cost of fuels consumed** — Report the total cost of all fuels consumed for heat, power, transportation, or the generation of electricity. Do not include the estimated cost of fuels, such as sawdust or blast furnace gas, produced as a by-product of your manufacturing activities. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, gasoline, and all other fuels including purchased steam.

▶ **Item 5d — Cost of purchased electricity** — Report the total cost of electric energy purchased from other companies or received from other establishments of your company. Exclude the value of electricity generated and used at this establishment.

▶ **Item 5e — Cost of contract work done for you by others on your materials** — If any contract work was done by others on materials furnished by your establishment, report the total payments made during the year for such work, including freight out and in. Exclude the cost of materials worked on, which should be included in item 5a.

▶ **Item 8 — Capital expenditures during year (Exclude expenditures for land)** — Include all costs actually incurred during 1977 chargeable to the fixed assets accounts and of the type for which depreciation or amortization accounts are ordinarily maintained. This should include construction and repair work performed by your own forces.

CONTINUE ON PAGE 3 →

FORM MC-36B (Rev.) U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

1977 CENSUS OF MANUFACTURES

SWITCHGEAR AND SWITCHBOARD APPARATUS AND INDUSTRIAL CONTROLS – Continued

PLEASE ENTER THIS ESTABLISHMENT'S 11-DIGIT CENSUS FILE NUMBER

Name of establishment (Same as address box)

Item 17A WATER USE DURING 1977

348

1. What was the total quantity of water intake for this establishment for use in the production process and auxiliary operations (such as cooling and condensing, sanitary services, and boiler feed) during the calendar year 1977?

Mark (X) one box only

1 ☐ Under 1 million gallons
2 ☐ 1–9 million gallons
3 ☐ 10–19 million gallons
4 ☐ 20–49 million gallons
5 ☐ 50–99 million gallons
6 ☐ 100 million gallons or over

2. Did you recirculate any water during the calendar year 1977? . . . . . 1 ☐ YES 2 ☐ NO

349

Item 17B CONSUMPTION OF SELECTED MATERIALS DURING 1977

Instructions - Please read

1. **GENERAL** – The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 18. Please review the entire list and **report separately** for each item consumed. The materials, parts, and supplies consumed at this establishment which are not prelisted should be described and reported in the "All other materials, etc." line at the end of this section. If your consumption of a listed material is valued at less than $10,000, enter an (X) in column (E) and include the value with "All other materials, etc." Census material code 970099 8.

   If your book records do not contain information as requested, **reasonable estimates are acceptable.**

2. **VALUATION OF MATERIALS CONSUMED** – The value of the materials, etc., consumed should be based on the delivered cost, i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials. This includes purchases, transfers from other establishments of your company, and withdrawals from inventories.

   Materials transferred to you from other plants within your company should be assigned their full economic value, as assigned by the shipping plant, plus cost of freight and handling charges.

3. **CONTRACT WORK** – Materials purchased for use by others making products for you on a contract basis should be included. Amounts paid to other companies for such contract work should be reported in item 5e, and should include freight in and out. Materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.

4. **MATERIALS PRODUCED AND CONSUMED** – Materials, parts, and supplies which are produced and consumed in the same establishment in the manufacture of products should be reported in column (C-1). Please report only the quantities of these materials produced and consumed. If the specific input materials used to produce these items are listed, the quantity and value should be reported in columns (C-2) and (D). If not, the cost should be included in the "All other materials, etc." line, Census material code 970099 8.

Line number	Materials, parts, and supplies (A)		Census material code S71 (B-1)	Unit of measure for quantities (B-2)	Quantities produced and consumed S72 (C-1)	Materials purchased and consumed: Quantity S73 (C-2)	Cost, including delivery cost (freight-in) (D): S74 Millions 000	Thousands 000	Dollars 000	If you consumed less than $10,000 of the item enter (X) S75 (E)
1	MILL SHAPES AND FORMS (EXCEPT CASTINGS)	Carbon steel — Bars and bar shapes	331011 7	Short tons			$			
2		Carbon steel — Sheet and strip	331012 5							
3		Carbon steel — Plates	331013 3							
4		Carbon steel — Structural shapes	331015 8							
5		Carbon steel — All other	331019 0							
6		Alloy steel (except stainless)	331020 8							
7		Stainless steel — Sheet and strip	331033 1							
8		Stainless steel — All other	331050 5							
9		Insulated wire and cable, except magnet wire — Copper – Report quantity of copper content only in column (C-2)	335792 8	Thousand pounds						
10		Insulated wire and cable, except magnet wire — Aluminum – Report quantity of aluminum content only in column (C-2)	335793 6							
11		Magnet wire	335770 4							
12		Copper and copper-base alloy — Bare wire (for electrical conduction only)	335728 2							
13		Copper and copper-base alloy — Rod, bar, and mechanical wire, including extruded and/or drawn shapes	335102 0							
14		Copper and copper-base alloy — Plate, sheet, and strip, including military cups and discs	335143 4							
15		Copper and copper-base alloy — Pipe and tube	335152 5							
16		Aluminum and aluminum-base alloy — Sheet, plate, and foil	335301 8							
17		Aluminum and aluminum-base alloy — Extruded shapes, including extruded rod, bar, pipe, tube, etc.	335405 7							
18		Aluminum and aluminum-base alloy — All other (wire, rolled rod and bar, powder, welded tubing, etc.)	335008 9							
19	CASTINGS (ROUGH AND SEMIFINISHED)	Steel	332045 4	Short tons						
20		Aluminum and aluminum-base alloy	336100 3	1,000 lbs.						
21		Copper and copper-base alloy	336200 1	1,000 lbs.						
22	INDUSTRIAL ELECTRICAL CONTROL EQUIPMENT	(Received for incorporation only into other industrial electrical control equipment shipped, as such, by this plant) Purchased from other companies	362200 8							
23		Received from other plants of your company	362209 9							
24	Porcelain, steatite, and other ceramic electrical products		326400 9							
25	Plastic products consumed in the form of sheets, rods, tubes and other shapes		307903 5							
26	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but exclude sheets, rods, tubes and shapes		282104 9	Thousand pounds						
27	Nonferrous metal smelter and refinery shapes, including precious metal		333001 6	Thousand pounds						
28	Bolts, nuts, screws, rivets, and screw machine products		345001 2							
29	Switches, except snap, toggle and push, and circuit breakers		361301 5							
30	Electric motors, generators and parts		362101 8							
31	Sheet metal products, except stampings		344401 5							
32	Resistors, capacitors, transformers, transducers, and other electronic-type components, except electron tubes and semiconductors		367001 5							
33	Cost of all other materials and components, parts, containers, and supplies consumed including those values checked in column (E) . . . . . *Describe the three principal materials, etc., included in this value.*		970099 8							
34	**TOTAL** *Sum of lines 1–33 should be same as item 5a*						$			

CONTINUE ON PAGE 4 →

Form MC-36B (Rev.) Page 4

Item 18 PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1977

Instructions - Please read

1. **GENERAL** – The products and services listed below are those that are generally made in your industry. Please review the entire list before completing the inquiry. If you produce products that are not prelisted, they should be described and reported in the "All other products" section at the end of item 18. **Please do not combine product lines.**

   Products for which quantity data are requested should be reported in the unit of measure specified.

   If your book records do not contain information as requested, **reasonable estimates are acceptable.**

2. **VALUATION OF PRODUCTS** – The value of the products shipped and services performed should be based on the **net selling value, f.o.b. plant,** after discounts and allowances, and exclusive of freight charges and excise taxes.

   When transferring products to other establishments within your company, the shipping plant should assign the full economic value to the transferred products, i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

3. **PRODUCTS BOUGHT AND SOLD WITHOUT FURTHER MANUFACTURE** – Products which you purchase and sell as originally purchased (not used in the further manufacturing, processing,or assembling of products made in this establishment) should be reported as "Resales," Census product code 99989 00 6.

4. **CONTRACT WORK**

   a. **Products made by others for you from your materials** Report such products on the specific lines of this section as if they were made in this establishment.

   b. **Products that you made from materials owned by others:** Report the amount that you received for "commission or contract receipts on line 29, Census product code 93000 00 8. Do not report on the specific product lines for these products.

5. **DETAILED DATA REPORTED ELSEWHERE** – This report requires totals for groups of products covered in more detailed Current Industrial Reports (CIR). If you report on the CIR forms the value of shipments for items designated by an asterisk should equal the sum of the detail reported on the CIR's.

Line number	Products and services (5) — * Item corresponds to products reported on Current Industrial Reports (A)	Census product code 581 (B-1)	Unit of measure for quantities (B-2)	Corresponds to the sum of products for 1977 reported on – Census form (B-3)	Corresponds to the sum of products for 1977 reported on – Code (B-4)	Products shipped and other receipts: Quantity 583 (D)	Products shipped and other receipts: Value, f.o.b. plant (E) 584 Millions 000	Thousands 000	Dollars 000
1	Switchgear, except ducts and relays (36131)*	36131 00 1		MA-36A	3613109–3613193		$		
2	Power circuit breakers, all voltages (36132)*	36132 00 9			3613215–3613230				
3	Low voltage panelboards and distribution boards and other switching and interrupting devices, 750 volts and under (36133)*	36133 00 7			3613311–3613398				
4	Fuses and fuse equipment under 2300 volts, except power distribution cut-outs (36134)*	36134 00 5			3613431–3613493				
5	Molded case circuit breakers, 750 volts and under (36135)*	36135 00 2			3613511–3613595				
6	Duct, including plug-in units and accessories, 750 volts and under (36136)*	36136 00 0			3613611–3613631				
7	Relays, control circuit (36137)*	36137 00 8			3613701–3613704				
8	General industry power circuit devices, controls, and parts (36220)*	36220 00 2			3622012–3622099				
9	Integrating instruments, electrical (38251)*	38251 00 5		MA38B	3825110–3825161				
10	Instruments to measure electricity (38253)*	38253 00 1		MA38B	3825308–3825376				
11	Power mercury arc rectifiers	36292 51 4	No. of units						
12	Current-carrying wiring devices, including lightning rods (36430)*	36430 00 7		MA36K	3643001–3643099				
13	Electrical metallic conduit and conduit fittings (36442)*	36442 00 2		MA36K	3644221–3644273				
14	Resistors for electronic applications (36700)*	36700 00 3	Thousands of units	MA36N	3676011–3676064				
15	Controls for monitoring residential and commercial environments and appliance regulating controls (38220)*	38220 00 0		MA38B	3822020–3822080				
16	Fractional horsepower motors (exclude hermetics) (36211)*	36211 00 1		MA36H	3621101–3621185				
17	Fractional motor-generator sets and other rotating equipment, including hermetics (36217)*	36217 00 8		MA36H	3621721–3621798				
18	Land transportation motors, generators, control equipment and parts (36213)*	36213 00 7		MA36H	3621311–3621393				
19	Parts and supplies for motors, generators, and motor generator sets, except for land transportation equipment. (Exclude motors for built in jobs)	36219 11 1							
20	Parts and attachments for adding, calculating, accounting machines and cash registers produced by complete machine manufacturers *	35745 10 8		MA35R	3574510				
21	Copper and copper-base alloy wire (bare and tinned) for purposes other than electrical transmission (alloyed)	33511 31 2	Short tons						
22	Galvanizing and other hot dip coatings	34790 31 1							
23	ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT — *Describe and report separately for each product whose value was $50,000 or more and not listed above. Specify unit of measure for quantity.*								
24									
25									
26									
27									
28	*Report a single total value for your remaining products not listed above.*	77777 00 1							
29	CONTRACT WORK — Receipts for work done for others on their own materials ..... *Describe products worked on and kind of work*	93000 00 8							
30	MISCELLANEOUS RECEIPTS — Sales of scrap and refuse	99980 13 8							
31	Receipts for repair work	99980 61 7							
32	Other miscellaneous receipts	99980 98 9							
33	RESALES — Sales of products bought and sold without further manufacture, processing,or assembly in this establishment. *The cost of such items should be reported in item 5b.*	99989 00 6							
34	**TOTAL** *Sum of lines 1–33 column (E)*	77000 00 8					$		

CONTINUE ON PAGE 5 →

FORM MC-36B (Rev.) U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

1977 CENSUS OF MANUFACTURES
SWITCHGEAR AND SWITCHBOARD APPARATUS AND INDUSTRIAL CONTROLS – Continued

PLEASE ENTER THIS ESTABLISHMENT'S 11-DIGIT CENSUS FILE NUMBER

Name of establishment (same as address box)

Item 19 – Not applicable to this form

Item 20 SELECTED METALWORKING AND RELATED OPERATIONS PERFORMED IN THIS ESTABLISHMENT DURING 1977

Mark (X) appropriate box

5	Census code	YES	NO
Were any of the operations listed below performed in this establishment in 1977?	591 208	592 1 ☐	592 2 ☐

If "Yes," indicate in column (C) by marking appropriately, which of the specified operations were performed in this establishment during 1977. Where "Yes" is marked, show in column (D) the approximate number of production workers on all shifts usually engaged in the specified operation.

Line number	Operation (A)	5 Census code 591 (B)	Was this operation performed in this establishment during 1977? 592 (C) Yes	(C) No	Number of production workers (on all shifts) usually employed when operated (estimate if necessary) 593 (D)
1	Foundry (iron or steel)	018	1 ☐	☐	
2	Foundry (nonferrous, except die casting)	026	1 ☐	☐	
3	Electroplating and other plating	059	1 ☐	☐	
4	Heat treating of metals for production purposes	075	1 ☐	☐	
5	Automatic screw machine department	083	1 ☐	☐	
6	Machine shop	091	1 ☐	☐	
7	Tool and die shop (if separate from machine shop) for jigs, fixtures, dies, and other special tooling	109	1 ☐	☐	
8	Pattern shop (foundry patterns only – metal, wood, etc.)	117	1 ☐	☐	
9	Plate or structural fabrication	125	1 ☐	☐	
10	Stamping, blanking and forming of metals	133	1 ☐	☐	
11	Painting, lacquering and enameling on metals	141	1 ☐	☐	
12	Plastics molding	158	1 ☐	☐	

Item 21 – Not applicable to this form

Remarks – *Please use this space for any explanation that may be essential in understanding your reported data.*

Item 22 CERTIFICATION

This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report	Telephone: Area code	Number	Extension	Period covered → From: Mo.	Day	Year	To: Mo.	Day	Year
Address – *Number and street*				Signature of authorized person					
City	State	ZIP code		Title			Date		

PENALTY FOR FAILURE TO REPORT — DUE DATE: FEBRUARY 15, 1978

FORM MC-37EX
(RAILROAD SHOPS)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 CENSUS OF MANUFACTURES

LOCOMOTIVES AND CARS BUILT AND REBUILT IN SHOPS OF OPERATING RAILROADS

Please complete and return this form as soon as possible after receipt to

BUREAU OF THE CENSUS
Industry Division
Washington, D.C. 20233

NOTICE – Response to this inquiry is **required by law (title 13, U.S. Code).** By the same law, your report to the Census Bureau is **confidential.** It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are **immune from legal process.**

In correspondence pertaining to this report, please refer to this Census File Number

Employer Identification Number

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Instructions - Please read

Please return one copy of this report to the Bureau of the Census, Industry Division, Washington, D.C., 20233, WITHIN 30 DAYS. A separate report should be completed for each shop of your company at which any locomotives or railroad cars were built or rebuilt during 1977.

Include as "rebuilt" locomotives and railroad cars those for which the cost of their dismantling, improvement, and modernization is more than 50 percent of the replacement cost of a new unit of the same class and kind at the time of rebuilding. Do not include as "rebuilt" any conversions or reclassifications, nor units which were reconditioned by replacing defective parts. The values reported for "rebuilt" locomotives and cars should represent the additional value written into the property account.

Item A – NAME OF ESTABLISHMENT COVERED BY THIS REPORT	
Item B – LOCATION OF ESTABLISHMENT	Number and street
	City / State / ZIP code
Item C – NATURE OF ACTIVITY	Describe briefly the kind of activity of this establishment
Item D – MAN-HOURS OF PRODUCTION WORKERS	Were more than 50 percent of the total production worker man-hours worked at this shop during 1977 devoted to building or rebuilding locomotives, passenger cars, or freight cars? ☐ Yes ☐ No

PLEASE CONTINUE ON PAGE 2

Form MC-37EX

Item E PRODUCTS MADE IN RAILROAD SHOP DURING 1977

Instructions - Please read

Columns (D) and (E) — Total built and rebuilt — Locomotives and cars built and rebuilt by railroads in their shops for their own use should be reported when they are transferred from the shop to the operating part of the company. The value of new locomotives and cars built by railroads for their own use should represent the amount at which they were written into the property accounts. The value reported for locomotives and cars "rebuilt" by railroad companies should represent the additional value written into the property account.

Report separately each product listed; do not combine product lines.

Lines 1–4, 21, and 22 — Include under "rebuilt," locomotives and railroad cars for which the cost of their dismantling, improvement, and modernization is more than 50 percent of the replacement cost of a new unit of the same class and kind at the time of rebuilding. Do not include as rebuilt any units which were reconditioned by replacing defective parts. Do not include conversions or reclassifications.

Column (F) — Weight of items reported in column (D) — Report the weight of locomotives and cars as the empty light weight or "tare" weight.

Line number	Product (A)				Census product code S81 (B)	Total built and rebuilt: Quantity (NUMBER OF UNITS) S83 (D)	Total built and rebuilt: Value f.o.b. plant (THOUSANDS OF DOLLARS) S84 (E)	Weight of items reported in column (D) (SHORT TONS) S85 (F)
1	LOCOMOTIVES, BOTH NEW AND REBUILT, AND PARTS FOR LOCOMOTIVES SOLD SEPARATELY (37431)	Locomotives	Diesel-electric (except mining type)	Rail service type	37431 11 1		$	
2				Other types	37431 15 2			
3			Other (except mining type)	Rail service type	37431 21 0			
4				Other types	37431 25 1			
5			Mining type, including both new and rebuilt		37431 60 8			
6		Parts for locomotives	Air brakes		37431 72 3			
7			Other locomotive parts, except wheels and axles		37431 79 8			
8	PASSENGER AND FREIGHT TRAIN CARS, NEW (37432)	Freight train cars, new	Box		37432 11 9			
9			Flat		37432 15 0			
10			Gondola		37432 25 9			
11		Hopper (covered)	Steel		37432 28 3			
12			Aluminum		37432 32 5			
13			Other		37432 34 1			
14		Hopper (uncovered)			37432 31 7			
15		Tank			37432 41 6			
16		Caboose			37432 45 7			
17		Other freight train cars, including refrigerator cars and industrial rail cars	Suitable for common carrier service		37432 51 5			
18			Not suitable for common carrier service		37432 52 3			
19		Passenger train cars, new	Self-propelled vehicles designed to carry passengers or articles		37432 61 4			
20			Non-self-propelled vehicles, including coach, coach combination, etc.		37432 62 2			
21	STREET CARS, PARTS AND ACCESSORIES FOR RAILROAD CARS AND STREET CARS, AND REBUILT PASSENGER AND FREIGHT TRAIN CARS (37433)	Rebuilt passenger and freight train cars	Rebuilt passenger train cars		37433 31 5			
22			Rebuilt freight train cars		37433 51 3			
23		Self-propelled street cars, subway cars, rapid transit, trolley buses, etc.			37433 61 2			
24		Non-self-propelled street cars, subway cars, rapid transit, trolley buses, etc.			37433 62 0			
25		Other work and service railroad vehicles (exclude locomotive cranes)			37433 69 5			
26		Parts and accessories for railroad and street cars	Airbrake equipment		37433 71 1			
27			Other railroad and street car parts and accessories		37433 79 4			
28	**TOTAL** *Sum of lines 1–27*				77000 00 8	→	$	

Remarks — *Please use this space for any explanation that may be essential in understanding your reported data.*

Item F CERTIFICATION

This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report	Telephone: Area code	Number	Extension	Period covered: From: Mo. Day Year	To: Mo. Day Year
Address — *Number and street*				Signature of authorized person	
City	State	ZIP code		Title	Date

PENALTY FOR FAILURE TO REPORT — DUE DATE: — Form Approved O M B No. 41-R2611

FORM MA-100(SU) — U.S. DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS

1977 ANNUAL SURVEY OF MANUFACTURES

NOTE ▶ • *This is the first sheet of the 1977 Census of Manufactures form* • *PLEASE READ INSTRUCTION MANUAL*

110 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 111 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

201 TAB | 202 IND·T | 203 AREA | 204 INFL | 205 CCS

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is **confidential.** It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

RETURN TO: Bureau of the Census, 1201 East Tenth Street, Jeffersonville, Indiana 47132

In correspondence pertaining to this report refer to this Census File Number (11 digits) ▼ — Employer Identification Number ▼ [redacted]

(Please correct any error in name and address including ZIP code)

ITEM 1A Physical Location — *Complete a, b, and c.*

a. Is this establishment located in the State, county, and place shown below? *(If blank or incomplete, please complete (1) through (4).)* 650 — 1 ☐ YES — *SKIP to part b* 2 ☐ NO — *Correct or complete lines (1) through (4)*

(1) Number and street

(2) City, village, or other place | State | ZIP code

(3) County | (4) If you corrected lines 1, 2, 3, give year moved to new location 19__

b. Type of municipality indicated in 1Aa(2): 1 ☐ City 2 ☐ Town 3 ☐ Village 4 ☐ Borough 5 ☐ Township 6 ☐ Unincorporated 7 ☐ Other — *Specify* 8 ☐ Don't know

c. Is this establishment located inside the legal boundaries of the city, town, village, etc., indicated in 1Aa(2)? 1 ☐ Yes 2 ☐ No 3 ☐ No legal boundaries 4 ☐ Don't know

NOTE — The area served by a post office generally does not coincide with the legal boundaries of the municipality from which it takes its name.

ITEM 1B Employer Identification Number(s) — Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941? ☐ YES ☐ NO — *Enter current EI number* → (9-digits) 108

ITEM 1C Organizational status — 109 — Mark (X) the **ONE** box which best describes this establishment during 1977: 1 ☐ Individual proprietorship 2 ☐ Partnership 0 ☐ Corporation (Do not mark if any form of cooperative association) 8 ☐ Cooperative association (corporate or non-corporate) 9 ☐ Other — *Specify*

NOTE ▶ Figures for dollars, man-hours, KWH should be rounded to thousands. However, you may enter figures to nearest dollars. Carefully enter your figures in the correct columns, e.g., if payroll is $1,125,628, report either . . . . . | Mil. | Thou. | Dols. | DR | Mil. | Thou. | Dols.
$1 | 126 | | | $1 | 125 | 628

Complete each item, enter "0" when appropriate.

	Key	1977 Number	1976 Number
ITEM 2 — Number of employees			
Number of production workers during pay period including the 12th of month — a. March	301		
b. May	302		
c. August	303		
d. November	304		
e. Sum of lines a–d	305		
f. Average number *(Divide line e by 4)*	306		
g. All other employees (pay period of March 12)	307		
h. TDTAL f and g (Item 2) →	308		

	Key	1977 Mil.	Thou.	Dols.	1976 Mil.	Thou.	Dols.
ITEM 3A — Annual payrolls							
a. Production workers' wages	309						
b. All other salaries and wages	310						
c. TDTAL (Item 3A) →	311						
ITEM 3B — Employer's cost for fringe benefits (supplemental labor costs) *(Exclude from items 3A and 3C)*							
a. Legally required including Social Security	312						
b. Payments for voluntary programs	313						
c. TDTAL (Item 3B) →	314						
ITEM 3C — First quarter payroll							
Total payroll for the first quarter (Jan.–March)	315				XXX	XXX	XXX

	Key	1977 Mil.	Thou.	Hours	1976 Mil.	Thou.	Hours
ITEM 4 — Plant hours worked by production workers							
a. January through March	316						
b. April through June	317						
c. July through September	318						
d. October through December	319						
e. TDTAL (Item 4) →	320						

	Key	1977 Mil.	Thou.	Dols.	DR	1976 Mil.	Thou.	Dols.
ITEM 5 — Cost of materials and services used								
a. Cost of materials, parts, components, containers, etc., used	321							
b. Cost of products bought and sold as such	322							
c. Cost of fuels consumed for heat or power *(See item 12)*	323							
d. Cost of purchased electricity *(See item 6)*	324							
e. Cost of contract work done for you by others	325							
f. TDTAL (Item 5) →	326							

	Key	1977 Kilowatt hours Mil.	Thou.	Units	DR	1976 Kilowatt hours Mil.	Thou.	Units
ITEM 6 — Quantity of electricity								
a. Purchased electricity (quantity comparable to cost as reported in item 5d)	327							
b. Generated electricity (gross less generating station use)	328							
c. Electricity sold or transferred to other establishments	329							

	Key	1977 Mil.	Thou.	Dols.	DR	1976 Mil.	Thou.	Dols.
ITEM 7 — Inventories of this establishment at end of year *(Report both years)*								
a. Finished products	335				331			
b. Work-in-process	336				332			
c. Materials, supplies, fuels, etc.	337				333			
d. TOTAL (Item 7) →	338				334			

ITEM 8 — Depreciable assets, capital expenditures, and retirements

Refer to the instruction manual for detailed instructions.

(a)	Key	1977 Total (b) Mil.	Thou.	Dols.	Key	Buildings and other structures (exclude land) (c) Mil.	Thou.	Dols.	Key	Machinery and equipment (d) Mil.	Thou.	Dols.	1976 Total (e) Mil.	Thou.	Dols.
a. Gross value of depreciable assets (usually original cost) at beginning of year	341				339				340						
b. Capital expenditures for new buildings and machinery	344				342				343						
c. Capital expenditures for used buildings and machinery	347				345				346						
d. Retirements and disposition of depreciable assets (i.e., gross value of assets sold, retired, scrapped, destroyed, etc.)	353				351				352				XXX	XXX	XXX
e. Gross value of depreciable assets at end of year (should equal lines 8a + 8b + 8c – 8d)	356				354				355						
ITEM 9 — Depreciation charges for the year	359				357				358				XXX	XXX	XXX
ITEM 10 — Rental payments	362				360				361						

ITEM 11A Total value of products shipped and other receipts

For 1977 report the total value of products shipped and other receipts as entered in **Item 18.** This value should be completely comparable to the total reported for 1976. If the two figures are not comparable, please explain the reasons why in the remarks section. (Reporting by product class is not required for 1977.) →

	Key	1977 Value (a) Mil.	Thou.	Dols.	1976 Value (b) Mil.	Thou.	Dols.
	330						

ITEM 11B Value of products exported (also included in item 11A)

Report the value of products shipped for EXPDRT. Include direct exports and products shipped to exporters or others for export. Do not include products shipped for further manufacture, assembly, or fabrication in the United States. 370 — 1 ☐ $0–24(999) 2 ☐ $25(000) or more — *Report the value of exports* → 371

ITEM 11C Unfilled orders *(See instruction manual)*

a. Does this establishment primarily produce for stock and fill orders from inventory? 372 — 1 ☐ Yes 2 ☐ No

b. What is the number of months normally required to fill an order? 373 — 1 ☐ Less than one month 2 ☐ 1 or 2 months 3 ☐ 3 months or more

NOTE — If there are any qualifications regarding the unfilled orders data, please explain in the remarks section on the reverse side and complete all parts of this item.

c. Report the value of unfilled orders on your books as of the end of the year → 374

CENSUS USE

MA-100 SU 5-77

CONTINUE ON PAGE 2 ➡

Page 2

ITEM 12 — Purchased fuels used for heat, power, and generating electricity in 1977

Kind of fuel (a)	Code (b)	Unit of measure for quantities (c)	1977 Quantity (d)	1977 Cost, including delivery cost (freight-in) (e) Mil.	Thou.	Dols.	Unit cost calculation: Calculated unit cost (f)	Usual range of unit costs (Please explain unusual figures in remarks) (g)
1. Coal	1210053	Short ton					$ per ton	$10–$90 per ton
2. Coke (including breeze)	3312105	Short ton					per ton	40–150 per ton
3. Distillate fuel oil (#'s 1, 2, 4, and light diesel)	2911410	Bbl. (42 gal.)					per bbl.	5–25 per bbl.
4. Residual fuel oil (#'s 5, 6 and heavy diesel)	2911519	Bbl. (42 gal.)					per bbl.	5–25 per bbl.
5. Natural gas	1311570	1,000 cu. ft.					per MCF	0.25–4.00 per MCF
6. Other fuels — *Specify kind*	9600115							
7. TOTAL COST OF FUELS *(Should equal cost shown in item 5c, page 1)* →								

ITEM 13 — Method of valuation for inventories reported for 1977 in Item 7

Using the inventory total reported for this establishment in item 7d for 1977, please indicate the breakdown of that total according to the inventory valuation methods shown.

- **Cost method** — Report amounts on lines 1a–f.
- **Market basis always used** — Report amounts on line 2b.
- **Lower of cost or market** — Report amounts valued at cost on lines 1a–f according to the applicable methods and the amount at market on line 2a.

Method of valuation (a)		Key	Amount at end of 1977 (b) Mil.	Thou.	Dols.
1. Cost	a. First-in, First-out (FIFO)	381			
	b. Last-in, First-out (LIFO)	382			
	c. Average cost	383			
	d. Specific or actual cost	384			
	e. Standard cost	385			
	f. Other — *Specify*	386			
2. Market	a. Market used for valuation because market lower than cost	387			
	b. Market always used for valuation	388			
TOTAL *(Equals the total reported in item 7d for 1977)* →		389			397

During the calendar year 1977 did you change the method of valuating the inventories that you reported for this establishment?

1 ☐ YES — *Indicate the nature of the changes in remarks.*

2 ☐ NO

ITEM 14 — Cost of purchased services *(See Instruction Manual)*

	Key	1977 Mil.	Thou.	Dols.
1. Repair of buildings and other structures	390			
2. Repair of machinery	391			
3. Cost of purchased communication services (telephone, telegraph, etc.)	392			

ITEM 15 — Breakdown of machinery and equipment expenditures by type reported in Item 8b, col. d *(See Instruction manual)*

	Key	1977 Mil.	Thou.	Dols.
1. Automobiles, trucks, etc., for highway use	393			
2. Computers and peripheral data processing equipment	394			
3. All other expenditures for new machinery and equipment	395			
TOTAL *(Should be the same as Item 8b, column d)* →				

ITEM 16A — Status of this establishment during 1977 *(Be sure to indicate the date of any change.)*

112 *MARK (X) ONE BOX*

	Enter figures only Mo.	Day	Year
1 ☐ No change in operator or operations			
2 ☐ Reorganized — Complete report for full year and describe type of change in remarks.			
3 ☐ Started new business (newly constructed or completely equipped when started)			
6 ☐ Establishment was acquired or leased from another company			
☐ Building only acquired			
☐ Complete plant acquired (building, machinery, and equipment)			
Name of former operator — EI Number *(9 digits)*			
Number and street, city, State, ZIP code			

	Enter figures only Mo.	Day	Year
4 ☐ Establishment closed (no new owner or operator), dismantled, abandoned, or destroyed on			
5 ☐ Establishment idle or inactive but still owned			
7 ☐ Establishment was sold or leased to another company			
☐ Building only sold			
☐ Complete plant sold (building, machinery, and equipment)			
Name of new operator — EI Number *(9 digits)*			
Number and street, city, State, ZIP code			

ITEM 16B — Company organization

113

a. Is this company owned or controlled by another company? 1 ☐ YES → 2 ☐ NO

114

b. Does this company own or control any other company or companies? 1 ☐ YES → 2 ☐ NO

Enter the company name and address *(Number and street, city, State, ZIP code)* and EI number. *If more space is needed to list companies, use remarks section.*

603 Name and address of owning or controlling company — EI Number *(9 digits)*

604 Name and address of owned or controlled company — EI Number *(9 digits)*

c. Did this company have any manufacturing plants under construction but not in operation at the end of the year? 1 ☐ YES 2 ☐ NO

d. Did you operate at more than one location during the survey year? *If more space is needed, attach separate sheet.* 1 ☐ YES — *List additional locations below* 2 ☐ NO — *SKIP to item 16C below*

Physical address of business location *(Number and street, city, State, ZIP code)* (a)	Employer Identification Number (b)	Kind of business at this location (c)	Sales and receipts (d) Mil.	Thou.	Dols.	Annual payroll (e) Mil.	Thou.	Dols.	Number of employees (f)	Are these figures included on the front of this report? (g)
605	606 –	607	608			609			610	☐ YES ☐ NO
605	606 –	607	608			609			610	☐ YES ☐ NO

ITEM 16C — CHECKS to assure a complete and accurate report

The Bureau of the Census reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report.

(1) Review the report carefully to see that no items are omitted for the year being covered.
(2) Calculate and enter figures for the four "reasonableness" checks below, and review the results.
(3) Correct your report for any errors you find and explain unusual figures in remarks.

For most manufacturing establishments, the figures computed usually fall within the ranges indicated.

"Reasonableness" checks	Calculation required for each check	Figures for survey year	Usual range
a. Average hourly wages per production worker	Item 3Aa (Production workers' wages) ÷ item 4e (Total hours worked)	$/hr.	$2 – $10
b. Hours worked per year per production worker	Item 4e (Total hours worked) ÷ item 2f (Average number of production workers)	hrs./yr.	1000 – 3000
c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ item 11A (Total value of shipments)	¢	05¢ – 95¢
d. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ item 11A (Total value of shipments)	¢	05¢ – 95¢

e. Is the total for Value of Shipments (item 11A) greater than the sum for payroll (item 3Ac) plus total Cost of Materials, etc. (item 5f)? ☐ YES ☐ NO — *Explain in remarks*

Remarks — *Please use this space for any explanations that may be essential in understanding your reported data.*

FORM MA-100 (SU) (8-77)

PENALTY FOR FAILURE TO REPORT
DUE DATE: FEBRUARY 15, 1978

Form Approved. O.M.B. No. 41-S77001

FORM CB-50F (5006)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 CENSUS OF DISTRIBUTIVE TRADES

ELECTRICAL GOODS

Important — PLEASE READ ALL ACCOMPANYING INSTRUCTIONS

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47132

Census use only	Unit No.	Item code	Unit No.	Item code	Unit No.	Item code

NOTICE — Response to this inquiry is **required by law (title 13, U.S. Code).** By the same law, your report to the Census Bureau is **confidential.** It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are **immune from legal process.**

In correspondence pertaining to this report, please refer to this Census File Number

CB-50F (5006)

Employer Identification Number

KEEP THIS COPY FOR YOUR FILES

PLEASE COMPLETE AND RETURN THE FORM WHICH SHOWS YOUR NAME AND ADDRESS

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Item 1 – PHYSICAL LOCATION OF ESTABLISHMENT – In order to assign this establishment to the correct geographic area, the Bureau of the Census must know the actual location **which may differ from the mailing address.** *Complete items a through g.*

a. Address number and street name of physical location – *If not known, enter building name, shopping center name, or other physical location description. Do not enter P.O. box or rural route.*

Mark (X) for a, b, c, and d if same as mailing label; if different show corrections.

Same as mailing label [ ] OR ▶

b. Name of city, town, village, borough, etc., of physical location

Same as mailing label [ ] OR ▶

c. State — Same as mailing label [ ] OR ▶

d. ZIP code — Same as mailing label [ ] OR ▶

e. Type of municipality indicated in 1b — *Mark (X) one*
1 [ ] City 4 [ ] Borough 7 [ ] Other – *Specify*
2 [ ] Town 5 [ ] Township
3 [ ] Village 6 [ ] Unincorporated 8 [ ] Don't know

f. Is this establishment located inside the legal boundaries of the city, town, village, etc., indicated in 1b?
1 Yes
2 No

NOTE – The area served by a post office generally does not coincide with the legal boundaries of the municipality from which the post office takes its name.
3 [ ] No legal boundaries
4 Don't know

g. Name of county (Louisiana parish) of physical location

Item 2 – EMPLOYER IDENTIFICATION NUMBER

Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941?

YES

NO – *Enter current EI number* ▶ [ ] – [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] *(9 digits)*

Item 3 – OPERATIONAL STATUS

a. Mark (X) the **ONE** box which best describes this establishment at the end of 1977.

001
1 [ ] In operation
2 [ ] Temporarily or seasonally inactive
3 [ ] Ceased operation – *Give date* ▶
4 [ ] Sold or leased to another operator } *Give date AND name, etc.* ▶

Figures only

Month	Day	Year

Name of new owner or operator

Number and street

City | State | ZIP code

b. How many months during 1977 did this firm or organization actively operate this establishment? — Number of months [002]

Item 4 – ORGANIZATIONAL STATUS

a. Mark (X) the **ONE** box which best describes this establishment during 1977.

003
1 Individual proprietorship
2 Partnership
8 Cooperative association
5 Governmental – *Specify* _____
0 Corporation (other than specified above)
9 Other – *Specify* _____

b. Was all or part of the income of this establishment or organization exempt from Federal income taxes under Section 501 or 521 of the Internal Revenue Code? [004] 1 YES 2 NO

Important – Please read

Dollar figures should be reported as illustrated. Please be careful to enter the figures in the **correct columns.** See example below:

EXAMPLE: If figure is $1,125,628.28 ▶

	Mil-lions (000)	Thou-sands (000)	Dol-lars (000)
• PREFERRED method	1	125	
Acceptable method	1	125	628

Item 5 – DOLLAR VOLUME OF BUSINESS IN 1977

		Mil.	Thou.	Dol.
a. Sales and other operating receipts **EXCLUDING** sales (or other) taxes collected	010			
b. Were sales (or other) taxes collected from customers and forwarded to taxing authorities?	011	1 YES 2 NO		
If "YES," report the amount of such taxes *DO NOT include taxes in 5a above*	012			
c. **TOTAL SALES** and other operating receipts including sales (or other) taxes (Sum of 5a and 5b above) ▶	013			
d. Did this establishment sell merchandise on a commission basis? *If "YES," go to 5e, if "NO," SKIP to 5g.*	100	1 YES 2 NO		
e. Gross selling value of business conducted for the account of others (Include in 5a)	101			
f. Dollar volume of commissions or brokerage received on transactions negotiated for others	102			
g. Did your company (including firms under common ownership and control) manufacture or mine, in the United States or its possessions, 50% or more of the products sold by this establishment?	103	1 YES 2 NO		
h. Did this establishment have transfers (billings) to other establishments within your company? *If "YES," go to 5i; if "NO," SKIP to item 5j.*	104	1 YES 2 NO		
i. Dollar volume of transfers (billings) to other establishments within your company *(DO NOT include in 5a)*	105			
j. Did construction receipts represent 50% or more of the total sales (as reported in 5a) of this establishment?	106	1 YES 2 NO		

Item 6 – PAYROLL AND EMPLOYMENT

		Mil.	Thou.	Dol.
a. Payroll				
(1) Total **ANNUAL** payroll in 1977 before deductions	030			
(2) Payroll for the **FIRST QUARTER** of 1977	031			

b. Employment – Number of paid employees for the pay period including the 12th of the month (include both full- and part-time employees)

032 (1) MAR	033 (2) MAY	034 (3) AUG	035 (4) NOV

Item 7 – OPERATING EXPENSES AND INVENTORIES

		Mil.	Thou.	Dol.
a. Total 1977 operating expenses, including payroll ▶	040			

045
1 YES – *Go to 7c*
2 NO – *SKIP to item 8*

b. Did you have merchandise inventories during 1977?

c. Indicate the value of merchandise inventories on hand at the end of the year specified according to the valuation methods shown.

- **Cost method** – Report amounts on lines (1)(a) through (e)
- **Market basis always used** – Report amounts on line (2)(b)
- **Lower of cost or market** – Report amounts valued at cost on lines (1)(a) through (e) according to the applicable methods and the amount at market on line (2)(a)

Method of inventory valuation		Key	Amount at end of 1977 Mil.	Thou.	Dol.	Key	Amount at end of 1976 Mil.	Thou.	Dol.
(1) Cost	(a) First-in, First-out (FIFO)	110				120			
	(b) Last-in, First-out (LIFO)	111				121			
	(c) Average cost	112				122			
	(d) Specific or actual cost	113				123			
	(e) Other – *Specify*	114				124			
(2) Market	(a) Market used for valuation because market lower than cost	115				125			
	(b) Market always used for valuation	116				126			
(3)	TOTAL INVENTORIES (Sum of lines (1)(a) through (e) and lines (2)(a) and (b)) ▶	046				047			

Please continue on page 2 ▶

Item 8 – TYPE OF OPERATION – Mark (X) the **ONE** item that is best suited to your business – the basis on which the major portion of your operation was conducted in 1977.

a. Merchant (buying and selling on own account) – An establishment primarily engaged in buying and selling merchandise produced by other firms on its own account.

- **Importer** – Source of purchase is primarily foreign.
- **Exporter** – Purchasing goods in the United States for delivery to customers outside the United States.
- **Wholesale merchant, jobber, distributor** – Buying and selling merchandise in the United States for delivery in the United States.

b. Manufacturers' sales branch or sales office – An establishment primarily engaged in selling goods mined or manufactured in the United States and its possessions or Puerto Rico by your company, your parent company, or companies corporately affiliated with your company.

- **Sales branch** – Manufacturers' sales outlet which carries stock.
- **Sales office** – Manufacturers sales outlet which does not carry stock.

c. Broker, agent, commission merchant – An establishment primarily engaged in selling (or buying) merchandise on an agency basis for others, but not dealing primarily on own account.

- **Auction company** – Selling merchandise for others at wholesale from a permanent location by the auction method.
- **Broker** – Selling (or buying) merchandise on a brokerage basis for others in the United States market, but not receiving goods on consignment.
- **Commission merchant** – Receiving goods on consignment and selling them in the United States market.
- **Import agent** – Representing, on an agency basis, firms outside the United States selling goods in the domestic market.
- **Export agent** – Representing, on an agency basis, domestic firms selling merchandise for delivery outside the United States or its possessions.
- **Manufacturers' agent** – Selling for a limited number of manufacturers on a continuing agency basis.

d. Other type of operation – If none of the above types apply, describe your method of operation.

060

a. Merchant (buying and selling on own account)
- (1) Importer 12
- (2) Exporter 13
- (3) Wholesale merchant, jobber, distributor 11

b. Manufacturers' sales branch or sales office
- (1) Sales branch (with stock) 21
- (2) Sales office (without stock) 22

c. Broker, agent, commission merchant
- (1) Auction company 41
- (2) Broker (representing buyers or sellers) 42
- (3) Commission merchant 43
- (4) Import agent 44
- (5) Export agent 45
- (6) Manufacturers' agent 46

d. Other type of operation – *Specify* . . . . . ☐

Item 9 – KIND OF BUSINESS – Mark (X) the **ONE** item that best describes the **principal** kind of business of this establishment in 1977. If none applies, mark the last item and enter the description by which your business is known to the trade or public.

070

a. Electrical goods
- (1) Electrical apparatus and equipment, wiring supplies, and construction materials 506300
- (2) Electrical appliances, television and radio sets 506400
- (3) Electronic parts and equipment 506500

b. Other kind of business – *Specify* . . . . . ☐

Item 10 – SALES BY COMMODITY LINES

Report the volume of sales of each of the listed commodity lines which account for at least 1% of this establishment's sales. If any commodities sold are not prelisted but account for 1% or more of total sales, write in the description and volume of sales in the space provided.

Sales may be reported either in dollar figures (see example on page 1), or as a percent (in whole percents) of the total (see example).

The sum of reported commodity lines should equal the total sales as reported in item 5a if dollars are reported; if percents are used, the sum should equal 100.

EXAMPLE FOR REPORTING PERCENTS	If figure is 38.76% of total sales:	Mil.	Thou.	Dol.	Percent
	• Report whole percents →				39%
	Not acceptable →				38.76%

Description	Census use only	Estimated sales during 1977 Mil.	Thou.	Dol.	Percent
Electrical goods	170	171			172
1. Electrical apparatus and equipment					
a. Power and distribution transformers	1311				
b. Switchgear and switchboard apparatus	1312				
c. Motors and generators	1313				
d. Industrial controls (power circuit devices and controls)	1314				
e. Electric lamps and bulbs	1316				
f. Interior wiring (Report conduit on line i)	1317				
g. Lighting fixtures (residential and commercial)	1318				
h. Communication equipment	1319				
i. Other electrical apparatus and equipment (Include conduits, transmission hardware, lightning rods, etc.)	1321				
j. **Total** (Sum of lines 1a through 1i) →	1300				
2. Electrical appliances, household	170	171			172
a. Radio and TV sets	1411				
b. Electrical household ranges and ovens	1412				
c. Refrigerators and freezers, household	1413				
d. Household laundry equipment	1414				
e. Vacuum cleaners and sewing machines, household	1415				
f. Room air conditioners	1416				
g. Other electric household appliances (Include fans, dishwashers, etc.)	1417				
h. **Total** (Sum of lines 2a through 2g) →	1400				
3. Electronic parts and equipment					
a. Electron tubes, receiving and transmitting (Include cathode ray TV picture tubes)	1511				
b. Intercommunication equipment	1512				
c. Public address equipment	1513				
d. Semiconductors, transistors, diodes, rectifiers, and other semiconductor devices (solar cells, zener diodes, etc.)	1514				
e. Other electronic parts and equipment	1515				
	170	171			172
f. **Total** (Sum of lines 3a through 3e) →	1500				

Description	Census use only	Estimated sales during 1977 Mil.	Thou.	Dol.	Percent
Other commodity lines	170	171			172
4. Automotive parts and supplies	0200				
5. Household and lawn furniture	0400				
6. Household china, glassware, and crockery	0500				
7. Linens, domestics, draperies, and shades	0520				
8. Floor coverings	0540				
9. Other home furnishings	0560				
10. Plywood, millwork	0650				
11. Sporting and recreational goods and supplies	0800				
12. Toys, hobby goods and supplies	0900				
13. Photographic equipment and supplies	1000				
14. Hardware (Include power hand tools)	1600				
15. Plumbing and heating equipment and supplies	1700				
16. Warm air heating and air conditioning equipment and supplies	1800				
17. Refrigeration equipment and supplies	1900				
18. Restaurant and hotel equipment and supplies	2020				
19. Farm machinery and equipment	2200				
20. Garden, lawn machinery and equipment	2250				
21. Jewelry, watches, diamonds, and other precious stones (Include silverware)	170 2900	171			172
22. Other durable goods (Include phonograph records and pre-recorded tapes)	3030				
23. Art goods (Include gifts, novelties, and souvenirs)	5910				
24. Miscellaneous commodities – *Specify*					
a.	9800				
b.	9800				
c.	9800				
25. Rental receipts – *Specify*	9940				
26. Service receipts and labor charges (Include installed parts)					
a. Labor charges	9711				
b. Parts installed and repair work	9712				
c. Other service receipts	9713				
d. **Total** (Sum of lines 26a through 26c) →	9700				
27. TOTAL SALES IN 1977 (Sum of lines 1 through 26 should equal the entry in item 5a) →	170 9990	171			172 100%

Please continue on page 3 →

FORM CB-50F

FORM CB-50F (5006)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 CENSUS OF DISTRIBUTIVE TRADES
ELECTRICAL GOODS

Please enter the 11-digit CENSUS FILE NUMBER as shown on this report *(See label on page 1)*

Item 11 – SALES BY CUSTOMER CLASSES

Report the approximate percentage of your 1977 sales (item 5a) to each of the customer classes listed.

Line a – Sales to laboratories, manufacturers of all types, service business, and other business concerns that normally buy for business use rather than for resale of the goods in the form purchased.

Line b – Sales to farmers for use in agricultural production.

Line c – Sales to builders and contractors for construction purposes, not for resale.

Line d – Sales to the Federal government (including the military, post exchanges, GSA, GPO, and similar Federal agencies) and to State and local governments. Include here only sales made by this establishment DIRECT to governmental agencies.

Line e – Sales to retailers of all types (retail chain organizations, independent stores, department stores, etc.) who normally buy for resale to home consumers. Sales to repair shops of all types.

Line f – Sales to organizations that normally purchase for resale at wholesale. Sales to suppliers of plumbing, electrical, farm, and office machinery and supplies. Sales through agents and brokers selling on your account.

Line h – Include sales made direct to buyers in foreign countries, or through their agents in this country. Include transfers, if any, to your own foreign branches. United States possessions should not be considered as foreign countries.

	Whole percents
a. To institutional, industrial, commercial, and professional users *Report sales to repair shops on line e.*	141
b. To farmers (for farm use)	142
c. To builders	143
d. To governmental bodies (Federal, State, and local governments)	144
e. To retailers and repair shops	145
f. To wholesale establishments	146
g. To household consumers and individual users	147
h. Export sales	148
i. TOTAL (Sum of lines a through h should add to 100) →	100%

Item 12 – EMPLOYMENT BY PRINCIPAL ACTIVITY

Report the approximate number of employees at this establishment according to their principal activity during the pay period including March 12, 1977 (total should equal item 6b(1)).

Line a – Include employees primarily engaged in selling services and merchandise from this establishment.

Line b – Include traveling salesmen, truck salesmen, etc.

Line c – Include employees primarily engaged in office and clerical work for this establishment. (See instruction for line e.)

Line d – Include employees primarily engaged in warehousing activities for this establishment. (See instruction for line e.)

Line e – Central administrative – Employees primarily engaged in various management, accounting, clerical, warehousing, etc., services for other establishments of your company. Include corporate officers unless primarily engaged in sales activities.

	Number of employees
a. Inside selling	130
b. Outside selling	131
c. Office and clerical	132
d. Warehousing	133
e. Administrative	134
f. Manufacturing	135
g. Other – *Specify*	136
h. TOTAL (Sum of lines a through g should equal entry in item 6b(1)) →	137

Item 13 – WAREHOUSE, STOCKROOM, AND OTHER INVENTORY STORAGE SPACE, DECEMBER 31,1977

Report occupiable floor space excluding space occupied by interior walls, permanent aisles, elevator shafts, stairways, offices, receiving and shipping platforms, etc.

a. Did you have warehouse, stockroom, or other inventory storage space on December 31, 1977? 149 — 1 YES – *Go to 13b* / 2 NO – *SKIP to item 15*

	Square feet		
	Mil.	Thou.	000
b. Occupiable floor space (under-roof) – occupied and unoccupied – of this establishment 150			

Item 14 – Not applicable to this form

Item 15 – CREDIT SALES, RECEIVABLES, AND BAD DEBT LOSSES

155

a. Did you have credit sales, receivables, or bad debt losses in 1977? 1 YES – *Go to 15b* / 2 NO – *SKIP to item 16*

b. Approximately what percent of your 1977 sales were made on credit? 156	%		
	Mil	Thou	Dol.
c. Accounts and notes receivable, outstanding as of December 31, 1977 157			
d. Bad debt losses, 1977 158			

Item 16 – TRUCKS, TRUCK TRACTORS, AND TRUCK TRAILERS OPERATED, MID-DECEMBER 1977

160

a. Did this establishment operate any trucks, truck tractors, or truck trailers mid-December 1977? 1 YES – *Go to 16b* / 2 NO – *SKIP to item 17*

b. Number and type of vehicles operated mid-December 1977	TOTAL	Owned	Rented or leased (without drivers)
(1) Trucks (except tractor trailer)	161	162	163
(2) Truck tractors	164	165	166
(3) Semi-trailers and full-trailers	167	168	169

Remarks – *Please use this space for any explanation that may be essential in understanding your reported data.*

Item 17 – CERTIFICATION

Census use only	18a. YES NO	18b. YES NO	19a. YES NO	19b. Number 079	Not returned	Blank

Name of person to contact regarding this report

Telephone: Area code | Number | Extension

Address – *Number and street*

City | State | ZIP code

This report is substantially accurate and has been prepared in accordance with instructions.

Period covered → From: Mo. Day Year To: Mo. Day Year

Signature of authorized person

Title | Date

O.M.B. No. 41-R2349: Approval Expires November 30, 1978

FORM MA-171 (11-25-77) U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

DEPARTMENT OF DEFENSE-OWNED AND OPERATED ESTABLISHMENTS PRIMARILY ENGAGED IN MANUFACTURING AND ASSEMBLY, AND/OR RESEARCH AND DEVELOPMENT – 1977

(Includes shipyards)

(Supplement to the Annual Survey of Manufactures, Census Form MA-100)

INSTRUCTIONS – This report is to be prepared by those Department of Defense establishments whose primary activities are manufacture and assembly and/or research and development. All shipyards are included.

The information requested is based upon reports now regularly prepared by most such establishments.

NOTICE – Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

(Please correct if any error in name and address, including ZIP code)

PLEASE RETURN THIS COPY

ITEM 1 – NAME AND PHYSICAL LOCATION OF ESTABLISHMENT ON DECEMBER 31, 1977

a. Name of establishment

Your answers to parts b, c, d, e, and f of this item should relate to the ACTUAL PHYSICAL LOCATION of this establishment which may be different from the mailing address.

b. Street and number of establishment location *

* If establishment location cannot be described by street and number, give name and number, if any, of road or highway and sufficient information to locate establishment, e.g., Rt. 25, 3 miles south of Charlesville.

c. Type and name of place in which located – *Mark (X) first applicable type and enter name of place.*

Type	Name of place
☐ City	
☐ Village or borough	
☐ Town	
☐ Township	
☐ Other – *Specify*	

d. Is this establishment physically located within the legal boundaries of the place named in "c"?

☐ Yes ☐ No

e. County in which located

f. State **ZIP code**

g. Telephone number of establishment *(Include area code)*

ITEM 2 – NATURE OF ACTIVITY

Describe briefly the kind of activity of this establishment. If a manufacturing plant, list the three most important products.

ITEM 3 EMPLOYMENT PAYROLLS IN CALENDAR YEAR 1977 (Civilian employees only)

Class of employee	Item code	Number of civilian employees in 1977: At end of quarter (As reported on Civil Service Form SF-113-A**) March (A)	June (B)	September (C)	December (D)	Sum of columns A, B, C, and D (E)	Average number of employees (Col. E divided by 4) (F)	Total wages and salaries of civilian employees (Thousands of dollars) (G)
a. Wage Board employees	41							$
b. All others	42							$
c. **TOTAL CIVILIAN EMPLOYEES** → *(Sum of lines a and b)*	49							$

** The number of Wage Board employees (line a) should be the same as reported on line 5 of SF-113-A. The total (line c) should be the same as reported on line 1 of SF-113-A.

ITEM 4 MAN-DAYS OF WAGE BOARD EMPLOYEES BY CALENDAR QUARTER 1977

Enter the total number of man-days of Wage Board employees for each calendar quarter of 1977. Do not include days paid for vacations, holidays, or sick leave.

Item code	1977 Quarterly period	Man-days (Thousands) (A)	Estimated number of man-hours*** (Thousands) (B)
51	a. January through March		
52	b. April through June		
53	c. July through September		
54	d. October through December		
59	e. **TOTAL, 1977** → *(Sum of lines a, b, c, and d)*		

*** Obtain figure for column (B) by multiplying column (A) by average number of hours per day per Wage Board employee in this establishment.

Please continue on page 2

ITEM 5 BILLINGS BY THIS ESTABLISHMENT DURING CALENDAR YEAR 1977

Enter below the specified classes of billings of this establishment for calendar year 1977

Billings for products and services (including progress billings)	Item code	Value (Thousands of dollars)
Manufacture and assembly	61	$
Construction and conversion	62	
Overhaul, repair, and renovation	63	
Alteration and modification	64	
Research and development	65	
Other billings	66	
Total billings for products and services	67	
Increase or decrease in unbilled costs of work in progress	68	
TOTAL EARNED REVENUE →	69	

ITEM 6 COSTS DURING CALENDAR YEAR 1977

Types of costs incurred	Item code	Cost (Thousands of dollars)
Materials, supplies, and parts used	71	$
Wages and salaries (same as item 3, code 49, col. G)	72	
Contractual services and other costs	73	
TOTAL COSTS INCURRED →	79	
VALUE ADDED (Census use only)	81	

ITEM 7 CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT

(Please complete this item after you have answered all items on this report.)

The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report.

a. Review this report carefully to see that no items are omitted.
b. Calculate and enter the four "reasonableness" checks (described below), then review the resulting figures.
c. Correct your report for any errors you find, explain unusual figures in "Remarks" section.

"Reasonableness" checks	Calculation required for each check	Resulting figures for 1977
(1) Average hourly wages per Wage Board employee	Item code 41, column G (Wages paid Wage Board employees) − item code 59, column B (Total estimated work hours)	$
(2) Work days per year per Wage Board employee	Item code 59, column A (Wage Board work-days in thousands) × 1,000 ÷ item code 41, column F (Average number of Wage Board employees)	_____ Work-days
(3) Wages and salaries per dollar of earned revenue	Item code 72, (Wages and salaries of civilian employees) ÷ item code 69 (Total earned revenue)	$

(4) Is the total earned revenue (item code 69, total) greater than total costs incurred (item code 79, total)? . . . . . ☐ Yes ☐ No — *If "No," please explain in "Remarks" section.*

ITEM 8 REMARKS PERTAINING TO THIS REPORT

PERIOD OF REPORT

This report covers the period from _____ to _____

ITEM 9	Name of person to be contracted regarding this report	Address — *Number and street, city, State, ZIP code*	Telephone — *Area code, number, extension*

ITEM 10

CERTIFICATION – This report is substantially accurate and has been prepared in accordance with instructions.

Name of establishment	Address — *Number and street, city, State, ZIP code*	
Signature of authorized official	Title	Date

FORM MA-72 (11-25-77)

DUE DATE: 30 days after receipt

Form Approved: O.M.B. No. 41-S77041

FORM MC-D4
(6-7-77)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 CENSUS OF MANUFACTURES

REPORT FROM PENAL INSTITUTIONS

(Plaasa correct any error in neme or address including ZIP code)

Please complete this form and RETURN TO ➧ **BUREAU OF THE CEN5U5**
Industry Division
Washington, D.C. 20233

YOUR FILE COPY

PRODUCTS MADE IN THIS ESTABLISHMENT DURING 1977

INSTRUCTIONS FOR TOTAL PRODUCTION

Column (D) — Quantity — Report where appropriate the quantity of all products you made in this institution during 1977. Include products produced for use within the institution and products transferred to other branches of your government.

Column (E) — Value — Report at approximate market value all products, either used within the institution or transferred to other governmental units.

Line No.	Product (A)	Unit of measure (B)	Total production: Quantity (D)	Total production: Value *(Thousands of dollars)* (E)	Census product code (J)
1	Meat and meat products			$	201
2	Canned foods				203
3	Coffee and tea				209
4	Tobacco, chewing and smoking				213
5	Blankets				221
6	Woven fabrics	1,000 lbs.			223
7	Cordage and twine	Thousand linear yards			229
8	Apparel and clothing, including uniforms, coats, etc.				230
9	Sheets and pillowcases				232
10	Canvas specialties				239
11	Mattresses				251
12	Wooden furniture				253
13	Printing and binding				275
14	Soaps				284
15	Paints				285
16	Shoes	Pairs			314
17	Brick — Clay	Thousand brick			325
18	Brick — Concrete				326
19	Concrete blocks	Thousand block 8"×8"×16" equivalent			327
20	Motor vehicle license plates *(Count a sat of front and reer platas as two plates)*	Number			346
21	Highway and road signs				399
22	Miscellaneous metal products				349
23	Brooms and brushes				399
24	Prepared animal feeds				204
25	All other products — *Specify kind and unit of measure*				
26					
27					
28					
29					
30	TOTAL *(Sum of lines 1–29)* ➧		→	$	

Remarks — *Plaasa use this space for any explanation that may be essentiel in understanding your reported deta.*

CERTIFICATION

This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report	Telephone: Area code	Number	Extension

Period covered → From: *(Mo., day, Yr.)* To: *(Mo., day, Yr.)*

Address — *Number and street*

Signature of authorized person

City	State	ZIP code	Title	Date

APPENDIX E. Authority for Census: Title 13, United States Code

COLLECTION AND PUBLICATION: Five-year periods (131)

The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses . . . in the year 1964, then in the year 1968, and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof.

Geographic scope of censuses (191a)

(a) Each of the censuses authorized by this chapter shall include each State, the District of Columbia, the Virgin Islands, Guam, the Commonwealth of the Northern Mariana Islands, and the Commonwealth of Puerto Rico, and as may be determined by the Secretary, such other possessions and areas over which the United States exercises jurisdiction, control, or sovereignty. Inclusion of the other areas over which the United States exercises jurisdiction or control shall be subject to the concurrence of the Secretary of State.

Wrongful Disclosure of Information (214)

Whoever, being or having been an employee or staff member referred to in subchapter II of chapter I of this title, having taken and subscribed the oath of office, or having sworn to observe the limitations imposed by section 9 of this title, publishes or communicates any information, the disclosure of which is prohibited under the provisions of section 9 of this title, and which comes into his possession by reason of his being employed (or otherwise providing services) under the provisions of this title, shall be fined not more than $5,000 or imprisoned not more than 5 years, or both.

FAILURE TO ANSWER QUESTIONS AFFECTING COMPANIES, BUSINESSES, RELIGIOUS BODIES, AND OTHER ORGANIZATIONS: FALSE ANSWERS (224)

Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, to answer completely and correctly to the best of his knowledge all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule or questionnaire prepared and submitted to him under the authority of this title, shall be fined not more than $500; and if he willfully gives a false answer to any such question, he shall be fined not more than $10,000.

APPENDIX F. Annual Survey of Manufactures

DESCRIPTION OF SURVEY SAMPLE

The annual survey of manufactures (ASM) is a survey based on a probability sample of about 70,000 manufacturing establishments selected from the census of manufactures universe. The current sample was selected from the manufacturing establishments included in the 1972 Census of Manufactures supplemented by Social Security Administration (SSA) files of manufacturers that opened after 1972. As in the earlier surveys, companies rather than establishments were defined as the sampling units. The selected companies were required to report for all of their plants, so that new establishments of existing companies also were represented in the sample.

All companies that had any manufacturing establishments with 250 employees or more in the 1972 census were included in the survey sample. These large companies, included with certainty, collectively account for more than two-thirds of total manufacturing employment.

Smaller companies were selected for the ASM in accordance with mathematical theory for optimum allocation of a sample. Their probabilities of inclusion ranged from 1.000 to 0.005 and were proportional to measures of size determined for each company. The measures of size of companies included in the 1972 Census of Manufactures depended directly upon each company's 1972 product class values and the historic variability of the year-to-year shipments of each product class. Roughly equivalent measures of size were assigned to the postcensus companies based on their industry codes and anticipated employment. (More specific information was not available for them in the SSA files used for sampling.)

To improve the reliability of the industry statistics for geographic areas, two features were incorporated into the sample design. First, some weight was given to the total value of shipments of each establishment relative to the total value of shipments for the State in which the establishment was located. Second, product class values for establishments in those States in which the total level of manufacturing was relatively low or was rapidly expanding (but for which the reliability of estimates was not expected to be much improved by the first sample design feature) were multiplied by factors ranging from 1.15 to 1.25 before measures of size were developed.

This method of assigning measures of size was used to maximize the precision (i.e., minimize the variance) of estimates of the year-to-year change in the value of product class shipments. Implicitly, it also gave weight to differences in employment, value added, and other industry statistics. These items are highly correlated with total value of shipments, and the assigned size measures varied directly with that total for each company.

The cost of collecting and processing data for a company is roughly proportional to the number of its establishment reports. To maximize the sample information obtained for a fixed total cost, each company's initial size measure was divided by the square root of its number of establishments. Sample selection probabilities then were obtained by multiplying each company's final measure of size by an overall sampling fraction calculated to yield the total expected sample size.

The sample selection procedure gave each company in the sampling frame an independent chance of selection. This method of selection differs from the method of systematic selection used in annual surveys prior to 1959. (With systematic selection, only certain combinations of companies can fall into the sample depending on the order in which they are arrayed at the time the sample is drawn.) Independent selection permits the rotation of the smaller companies into and out of a given sample panel without introducing a bias into the survey estimates.

ESTIMATING PROCEDURES

Most of the historical data compiled from the annual survey of manufactures sample were computed by the "difference estimate formula." For each item, linear estimates of the totals for both the most recent census of manufactures year and the ASM year were developed by multiplying each sample establishment's data by its sample weight (the reciprocal of its probability of selection) and summing the weighted values to publication levels. Then the difference between the two linear estimates was added to the complete (universe) total for the census year to produce the estimate for the ASM year. Estimates developed by the difference estimate formula usually are far more reliable than the comparable linear estimates developed from the current sample data alone.

The 1977 sample data were also developed using difference estimates. However, since the universe totals for the census year (either 1972 or 1977) were not known, a modification of the procedure described above was necessary. For each item, except purchased services and the breakdown of expenditures for new machinery and equipment (see further description in appendix A), linear estimates of the publication totals from the ASM sample were adjusted by the difference between imputed census totals and the corresponding ASM sample estimates of these imputed totals. These imputed totals are obtained by applying industry average ratios to control item values at the establishment level. For example, an imputed total beginning assets figure is obtained by multiplying each establishment's total value of shipments by the industry (4-digit SIC) average for the ratio of beginning assets to shipments.

QUALIFICATIONS OF THE DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sampled lists but otherwise conducted under essentially the same conditions as the actual sample survey. The sampling errors—the differences between the estimates obtained and the results theoretically obtainable from a comparable complete coverage survey—are unknown. Guides to the potential size of the sampling errors, however, are provided by the standard errors of the estimates.

The particular sample selected for the ASM is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretical, comparable, complete coverage values.

Estimates of the standard errors have been computed from the sample data for the current statistics, as well as the historical ASM data. They are presented in the form of relative standard errors, i.e., the standard errors divided by the estimated values to which they refer.

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals—ranges that would include the comparable complete coverage value for specified percentages of all the possible samples. The complete coverage value would be included in the range:

a. From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
b. From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.
c. From three standard errors below to three standard errors above the derived estimate for nearly all possible samples.

An inference that the comparable complete survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence with which the estimates from a particular sample would differ from complete coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown as 50,000 with an associated relative standard error of 2 percent, i.e., a standard error of 1,000 (2 percent of 50,000). Then there is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete coverage total.

In addition to the sample errors, the estimates are subject to various operational errors (errors of collection, reporting, coding, transcription, imputation for nonresponse, etc.). These errors would also occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected in the course of the Bureau's review of the data for reasonableness and consistency. When they were detected too late to correct, the data were suppressed or were specifically qualified in the tables. The small operational errors usually remain; to some extent, they are compensating in the aggregated totals shown.

As derived, the estimated standard errors include part of the effect of the operational errors. The total error, which depends upon the joint effect of the sampling and operation errors, is usually of the order of size indicated by the standard error or only moderately higher. For particular estimates, however, the total error may considerably exceed the standard errors shown.

The concept of complete coverage under the conditions prevailing for the annual surveys of manufactures is not identical to the complete coverage of the censuses of manufactures as conducted. Nearly all types of operational errors that affect the surveys also occur in the censuses. The surveys and the censuses, however, are conducted under quite different conditions, and operational errors can be controlled more tightly in the surveys than in the censuses. As a result, errors in many of the census figures are of the same order of size as the total errors in the corresponding annual survey estimates. The differences between the census and the survey operating conditions also disturb, to some degree, the comparability of the census and annual survey data.

Any figure shown in the tables in this publication having an associated standard error exceeding 15 percent may be of limited reliability. However, the figure may be combined with other totals, creating a broader aggregate, which may then be of acceptable reliability.

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